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Chair of MTC and BATA

JAKE MACKENZIE, VICE CHAIR
Vice Chair of MTC and BATA

FEDERAL GLOVER
MTC Commissioner,
Contra Costa County

SCOTT HAGGERTY
MTC Commissioner,
Alameda County

BIJAN SARTIPI
MTC Commissioner,
State Business, Transportation
and Housing Agency

JIM SPERING
MTC Commissioner,
Solano County and Cities

STEVE HEMINGER
Executive Director

ALIX BOCKELMAN
Deputy Executive Director, Policy

ANDREW B. FREMIER
Deputy Executive Director, Operations

May 19, 2015

Addendum No. 1

To

Invitation For Bid (IFB)

I-680 Express Lanes Project

In Alameda and Contra Costa Counties on Route 680 PM

R20.1/21.9, R0.0/14.0

Dated April 28, 2015

Dear Consultant:

This letter is Addendum No. 1 to the Invitation for Bid I-680 Express Lanes Project, dated April 28, 2015 ("IFB"). Where text is revised, deleted text is shown in strike-through format; added text is *italicized*. The RFP is revised as follows:

<u>Addendum Item</u>	<u>Reference</u>	<u>Change</u>
1.	IFB, Part 1, <u>Notice to Bidders</u> , Bid Submission, Page 9	<p>Bid Submission & Bid Opening</p> <p>Interested bidders must submit their bids in sealed envelopes no later than 4:00 P.M. PST on June 5, 2015. Bids received after that date and time will not be considered. All bids must be completed and submitted on the enclosed Bid Forms, in Part 5 of this IFB, in order to be considered. Bid Opening is open to the public and will be held at the due date and time listed above at BAIFA offices located at Joseph P. Bort Metro Center, 101 Eighth St, Oakland CA, 94607, in the Fishbowl Conference Room</p>
2.	IFB, Part 1, <u>Notice to Bidders</u> , BAIFA Point of Contact, Page 9	<p>BAIFA Point of Contact:</p> <p>A submitted bid is considered a firm offer to provide the services described for a period of one hundred twenty (120) days from the date of bid opening.</p> <p>Bids and all inquiries relating to this IFB must be submitted to the Contracts Specialist at the address shown below. E-mail inquiries may be directed to <MBrinton@mtc.ca.gov>.</p> <p>Michael Brinton, BAIFA Contracts Specialist Bay Area Infrastructure Financing Authority Joseph P. Bort Metro Center 101 Eighth Street, 3rd Floor Reception Desk Oakland, CA 94607-4700 510-817-5727</p>

<u>Addendum Item</u>	<u>Reference</u>	<u>Change</u>
3.	IFB, Part 1, <u>Notice to Bidders</u> , BAIFA Bidder Selection Time Table, Page 11	<p><u>Bidder Selection Timetable</u></p> <p>10:00 a.m. PST, Wednesday, May 20, 2015 Mandatory Pre-Bid Conference</p> <p>8:00 a.m. PST, Wednesday, May 27, 2015 Deadline for requests for clarification or exception</p> <p>4:00 p.m. PST, Friday, June 5, 2015 Closing date & time for receipt of bids & bid opening</p> <p>Wednesday, June 17, 2015 BAIFA Committee consideration of recommendation for award</p> <p>Wednesday, June 24, 2015* Issuance of Notice of Award</p> <p><i>* Award and approval dates are approximates and are subject to change before or after the closing date of the IFB.</i></p>
4.	IFB, Part 2, <u>Special Provisions - Forward</u> , Notice of Award, 1 st Paragraph, Page 14,	<p>4. Notice of Award</p> <p>After Bids are opened at the time and place stipulated, Bids will be reviewed by BAIFA. The contract will be awarded to the lowest responsive and responsible Bidder subject to the approval of BAIFA Committee. BAIFA reserves the right to award a contract or to reject any or all bids. No Bidder may withdraw its bid for the period of days stipulated on the Bid Form after the date set for the Bid Opening. The Bid is subject to acceptance by BAIFA during this period.</p>
5.	IFB, Part 5, <u>Bid Forms</u> , Bid Form #1, Page 43	IFB Part 5, <u>Bid Forms</u> , Bid Form #1 is deleted in its entirety and replaced with the attached Bid Form #1.
6.	IFB, Part 10, <u>Construction Details</u> , Division II, General Construction, Page 139	<p style="text-align: center;">10 GENERAL</p> <p style="text-align: center;">Add to section 10-1.02:</p> <p><i>The first order of work must be to install the conduit and pull boxes for the backhaul communications work as shown.</i></p> <p>Do not place the uppermost layer of new pavement until all underlying conduits and loop detectors are installed.</p> <p>At the end of each working day if a difference in excess of 0.15 feet exists between the elevation of the existing pavement and the elevation of an excavation within 5 feet of the traveled way, place and compact material</p>


		against the vertical cut adjacent to the traveled way. During the excavation operation, you may use native material for this purpose except once the placing of the structural section starts, structural material must be used. Place the material to the top of the existing pavement and taper at a slope of 4:1 (horizontal:vertical) or flatter to the bottom of the excavation. Do not use treated base for the taper.
7	IFB, Part 10, <u>Construction Details</u> , Standard Plans List, Page 206	To be added after line T3B Temporary Railing (Type K): RSP T9 Traffic Control System Tables for Lane and Ramp Closures RSP T10 Traffic Control System for Lane Closure on Freeways and Expressways RSP T10A Traffic Control System for Lane Closures on Freeways and Expressways RSP T14 Traffic Control System for Ramp Closure
8.	IFB, Appendix A, <u>Contract Drawings and Plans</u> , (see Supplemental Documents)	Appendix A, <u>Contract Drawings and Plans</u> , Project Plan Sheets: 1, 116 – 118, 120, 124, 126, 128, 131, 134 – 139, 142, 146, 150, 151, 153, 154, 158, 161 – 163, 165 – 167, 169, 170, 275, 463, 495 - 498, 500, 504, 506, 508, 511, 514 – 519, 522, 526, 530, 531, 533, 534, 538, 541 – 543, 545 – 547, 549, 550, 565, 566 are deleted in their entirety and replaced with the attached <u>Appendix A, Contract Drawings / Plans</u> .
9.	IFB, Appendix A, <u>Contract Drawings and Plans</u> , (see Supplemental Documents)	Appendix A, <u>Contract Drawings and Plans</u> , Project Plan Sheets: 566A, 566B, 566C, 566D, 566E, 566F, 566G, 566H, 566I, 566J, 566K, 566L, 566M, 566N, 566O, 566P, 566Q, 566R, 566S, 566T, 566U, 566V, 617A, 617B, 617C, 617D are added as attached.

The remaining provisions of the IFB remain unchanged. In the event of a conflict between this Addendum and the previous version(s), this Addendum takes precedence.

Any questions concerning this addendum to the IFB should be directed to Michael Brinton, Contracts Specialist, at (510) 817-5727 or mbrinton@mtc.ca.gov.

Sincerely,

DocuSigned by:



8584B49D6DE64E9...

Andrew B. Premier

Deputy Executive Director, Operations

SH:an

J:\CONTRACT\Procurements\Engineer&Architect\Express Lanes\CC680south Civil Const. IFB\CC680 South Civil IFB Addendum 1\CC680 South Civil IFB Addendum No. 1_Final.docx

BID FORM #1

BID FORM

CONTRACT NO. BAIFA-100

I-680 Express Lanes Project

FROM: BIDDER'S NAME _____

TO: THE BAY AREA INFRASTRUCTURE FINANCING AUTHORITY,

In compliance with the **Invitation to Bid** for this project, the undersigned Bidder, being thoroughly familiar with the terms and conditions of the Contract Documents, hereby proposes and agrees fully to perform the work within the time stated and in strict accordance with the Contract Documents.

The Bidder hereby acknowledges receipt of the following Addenda to the Contract Documents:

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Bidder hereby incorporates by reference all provisions of the Contract Documents that follow this Bid Form.

SCHEDULE OF QUANTITIES AND PRICES
CONTRACT NO. BAIFA-100
EA No. 04-3G9504
I-680 Express Lanes Project

The prices quoted below include all applicable taxes, fees, permits, delivery, the cost of Bonds, insurance, and other charges and expenses, direct or indirect, as required.

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070030	Lead Compliance Plan	LS	1		
2	080050	Progress Schedule (Critical Path Method)	LS	1		
3	090100	Time-Related Overhead (WDAY)	WDAY	300		
4	120090	Construction Area Signs	LS	1		
5	120100	Traffic Control System	LS	1		
6	120120	Type III Barricade	EA	98		
7	120165	Channelizer (Surface Mounted)	EA	1,450		
8	120300	Temporary Pavement Marker	EA	520		
9	121161	Temporary Terminal Section (Type K)	EA	64		
10	128652	Portable Changeable Message Sign (LS)	LS	1		
11	129000	Temporary Railing (Type K)	LF	31,800		
12	129100	Temporary Crash Cushion Module	EA	182		
13	129102A	Temporary Alternative Crash Cushion	EA	1		
14	130100	Job Site Management	LS	1		
15	130200	Prepare Water Pollution Control Program	LS	1		
16	130620	Temporary Drainage Inlet Protection	EA	62		
17	130640	Temporary Fiber Roll	LA	810		
18	130730	Street Sweeping	LS	1		
19	130800	Temporary Active Treatment System	LS	1		
20	130900	Temporary Concrete Washout	LS	1		
21	141000	Temporary Fence (Type ESA)	LF	74,600		
22	141010A	Temporary Fence (Wildlife Exclusion Type E)	LF	11,500		
23	141103	Remove Yellow Thermoplastic Traffic Stripe (Hazardous Waste)	LF	1,220		
24	141120	Treated Wood Waste	LB	4,350		
25	148005	Noise Monitoring	LS	1		
26	150661	Remove Guardrail	LF	310		
27	150714	Remove Thermoplastic Traffic Stripe	LF	6,090		
28	150715	Remove Thermoplastic Pavement Marking	SQFT	2,810		
29	150722	Remove Pavement Marker	EA	3,500		
30	150742	Remove Roadside Sign	EA	25		
31	150748	Remove Roadside Sign Panel	EA	81		
32	150771	Remove Asphalt Concrete Dike	LF	960		
33	150812	Remove Pipe (LF)	LF	1,090		
34	150820	Remove Inlet	EA	2		

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
35	150830A	Remove Edge Drain	LF	1,160		
36	150840A	Remove Underdrain	LF	780		
37	153103	Cold Plane Asphalt Concrete Pavement	SQYD	7,340		
38	153210	Remove Concrete	CY	5		
39	153221	Remove Concrete Barrier	LF	5,840		
40	155231	Culvert Slurry-Cement Backfill	CY	1,410		
41	190101	Roadway Excavation	CY	380		
42	190105	Roadway Excavation (Type Z-2) (Aerially Deposited Lead)	CY	120		
43	193001	Structure Backfill	CY	1,740		
44	210350	Fiber Rolls	LF	810		
45	210600	Compost	SQFT	87,200		
46	390132	Hot Mix Asphalt (Type A)	TON	1,860		
47	394074	Place Hot Mix Asphalt Dike (Type C)	LF	350		
48	394076	Place Hot Mix Asphalt Dike (Type E)	LF	280		
49	394077	Place Hot Mix Asphalt Dike (Type F)	LF	360		
50	510502 (F)	Minor Concrete (Minor Structure)	CY	19		
51	510526	Minor Concrete (backfill)	CY	720		
52	560208 (F)	Furnish Sign Structure (Tubular)	LB	26,300		
53	560209 (F)	Install Sign Structure (Tubular)	LB	26,300		
54	560218 (F)	Furnish Sign Structure (Truss)	LB	476,900		
55	560219 (F)	Install Sign Structure (Truss)	LB	476,900		
56	560244	Furnish Laminated Panel Sign (1"- Type A)	SQFT	9,820		
57	560248	Furnish Single Sheet Aluminum Sign (0.063"-Unframed)	SQFT	1,630		
58	561014	54" Cast-in-Drilled-Hole Concrete Pile (Sign Foundation)	LF	50		
59	561016	60" Cast-in-Drilled-Hole Concrete Pile (Sign Foundation)	LF	940		
60	562002	Metal (Barrier Mounted Sign)	LB	450		
61	568001	Install Sign (Strap and Saddle Bracket Method)	EA	44		
62	568017	Install Roadside Sign Panel on Existing Post	EA	78		
63	597600	Prepare and Paint Concrete	SQFT	10		
64	620100	18" Alternative Pipe Culvert	LF	730		
65	620180	30" Alternative Pipe Culvert	LF	180		
66	620260	42" Alternative Pipe Culvert	LF	370		
67	665718	18" Slotted Corrugated Steel Pipe (.168" Thick)	LF	220		
68	681103	3" Plastic Pipe (Edge Drain)	LF	1,090		
69	682045	Class 3 Permeable Material	CY	190		
70	685020	8" Alternative Pipe Underdrain	LF	560		
71	731502	Minor Concrete (Miscellaneous Construction)	CY	9		

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
72	750001 (F)	Miscellaneous Iron And Steel	LB	4,460		
73	820130	Object Marker	EA	470		
74	832007	Midwest Guardrail System (Wood Post)	LF	650		
75	832070	Vegetation Control (Minor Concrete)	SQYD	580		
76	839221	Double Midwest Guardrail System (Wood Post)	LF	25		
77	839543	Transition Railing (Type WB-31)	EA	1		
78	839576	End Cap (Type A)	EA	1		
79	839581	End Anchor Assembly (Type SFT)	EA	3		
80	839582	End Anchor Assembly (Type CA)	EA	1		
81	839584	Alternative In-Line Terminal System	EA	4		
82	839591	Crash Cushion, Sand Filled	EA	1		
83	839699	Concrete Barrier (Type 60P)	LF	160		
84	839701	Concrete Barrier (Type 60)	LF	340		
85	839703	Concrete Barrier (Type 60C)	LF	800		
86	839709	Concrete Barrier (Type 60GE)	LF	4,230		
87	839713	Concrete Barrier (Type 60R)	LF	570		
88	840516	Thermoplastic Pavement Marking (Enhanced Wet Night Visibility)	SQFT	13,900		
89	846001	4" Thermoplastic Traffic Stripe (Enhanced Wet Night Visibility)	LF	180,500		
90	846004	4" Thermoplastic Traffic Stripe (Enhanced Wet Night Visibility) (Broken 17-7)	LF	680		
91	846005	4" Thermoplastic Traffic Stripe (Enhanced Wet Night Visibility) (Broken 34-14)	LF	28,300		
92	846009	8" Thermoplastic Traffic Stripe (Enhanced Wet Night Visibility)	LF	3,520		
93	846011	8" Thermoplastic Traffic Stripe (Enhanced Wet Night Visibility) (Broken 34-14)	LF	128,400		
94	846012	8" Thermoplastic Traffic Stripe (Enhanced Wet Night Visibility) (Broken 12-3)	LF	440		
95	846012A	Contrast Pavement Stripe Black Paint (Broken)	LF	97,300		
96	846012B	3" Contrast Pavement Stripe Black Paint (Solid)	LF	12,400		
97	846020A	12" Thermoplastic Traffic Stripe (Enhanced Wet Night Visibility)	LF	400		
98	850101	Pavement Marker (Non-Reflective)	EA	3,120		
99	850111	Pavement Marker (Retroreflective)	EA	9,870		
100	860090	Maintaining Existing Traffic Management System Elements During Construction	LS	1		
101	860202A	Electronic Toll Systems	LS	1		
102	860401A	Lighting (BAIFA)	LS	1		
103	860202B	Backhaul Communications	LS	1		
104	999990	Mobilization	LS	1		

The Total Contract Price shall be the sum of of the Bid Items above.

TOTAL CONTRACT PRICE:	In Words:	Numbers (\$):

SUBMITTED BY:

Full and Correct Name of Bidder:

Business Address:

Phone: _____

Fax: _____

California Contractor’s License:

Number: _____

Class: _____

Expires: _____

CONTRACTOR INFORMATION

The names of all persons as principals interested in the foregoing bid are as follows:

(IMPORTANT NOTICE: If Bidder or other interested person is a corporation, give legal name of corporation, and names of the President and Secretary thereof; if a partnership, give name of the firm, also names of all individual partners composing firm; if Bidder or other interested person is an individual, give first and last names in full. If a Bidder is a joint venture, supply the above information for each joint venture partner.)

The person signing this Bid Form for the Bidder certifies that he or she is authorized by the Bidder to do so and that the Bidder is bound contractually by that signature.

Signature _____

Name _____
(Print)

Title _____

Date _____

APPENDIX A

Contract Drawings / Plans

Replacement Sheets:

Project Plan Sheets 1, 116 – 118, 120, 124, 126, 128, 131, 134 – 139, 142, 146, 150, 151, 153, 154, 158, 161 – 163, 165 – 167, 169, 170, 275, 463, 495 - 498, 500, 504, 506, 508, 511, 514 – 519, 522, 526, 530, 531, 533, 534, 538, 541 – 543, 545 – 547, 549, 550, 565, 566.

Added Sheets:

Project Plan Sheets 566A, 566B, 566C, 566D, 566E, 566F, 566G, 566H, 566I, 566J, 566K, 566L, 566M, 566N, 566O, 566P, 566Q, 566R, 566S, 566T, 566U, 566V, 617A, 617B, 617C, 617D

APPROVED AS TO IMPACT ON STATE FACILITIES AND CONFORMANCE WITH APPLICABLE STATE STANDARDS AND PRACTICES AND THAT TECHNICAL OVERSIGHT WAS PERFORMED.

DATE SIGNED 4-08-15

LICENSE EXP. DATE 6-30-15

REGISTRATION NO. 53184

CALTRANS DESIGN OVERSIGHT APPROVAL DEANA JOE DE LA VEGA

CONSULTANT DESIGN MANAGER RAMSEY HISSEN

INDEX OF PLANS



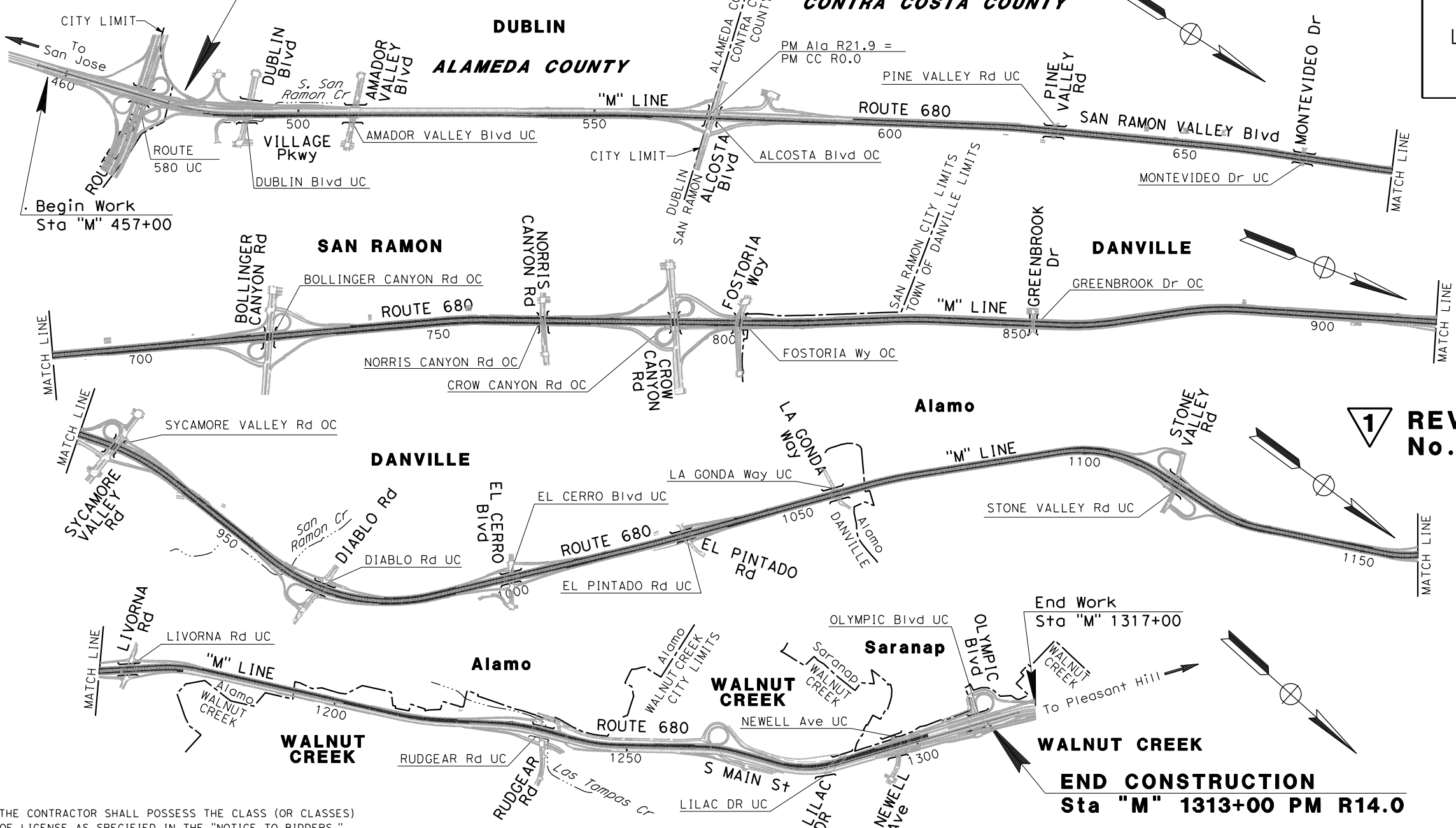
SHEET No.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2	KEY MAP AND LINE INDEX
3	PROJECT CONTROL
4	LAYOUT PLANS
5	CONSTRUCTION DETAILS
6	TEMPORARY WATER POLLUTION CONTROL
7	QUANTITIES
8	DRAINAGE PLANS, PROFILES, DETAILS, AND QUANTITIES
9	UTILITY PLANS
10	CONSTRUCTION AREA SIGNS
11	TRAFFIC HANDLING PLANS, AND QUANTITIES
12	DETOUR PLAN
13	PAVEMENT DELINEATION PLANS, DETAILS, AND QUANTITIES
14	SIGN PLAN, DETAILS, AND QUANTITIES
15	SUMMARY OF QUANTITIES
16	EROSION CONTROL DETAILS AND QUANTITIES
17	ELECTRICAL PLANS, DETAILS, AND QUANTITIES
18	BACKHAUL COMMUNICATIONS
19	LOG OF TEST BORINGS
20	REVISED STANDARD PLANS
21	617A - 617D

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

BEGIN CONSTRUCTION

Sta "M" 475+00 PM R20.1

PLEASANTON



THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

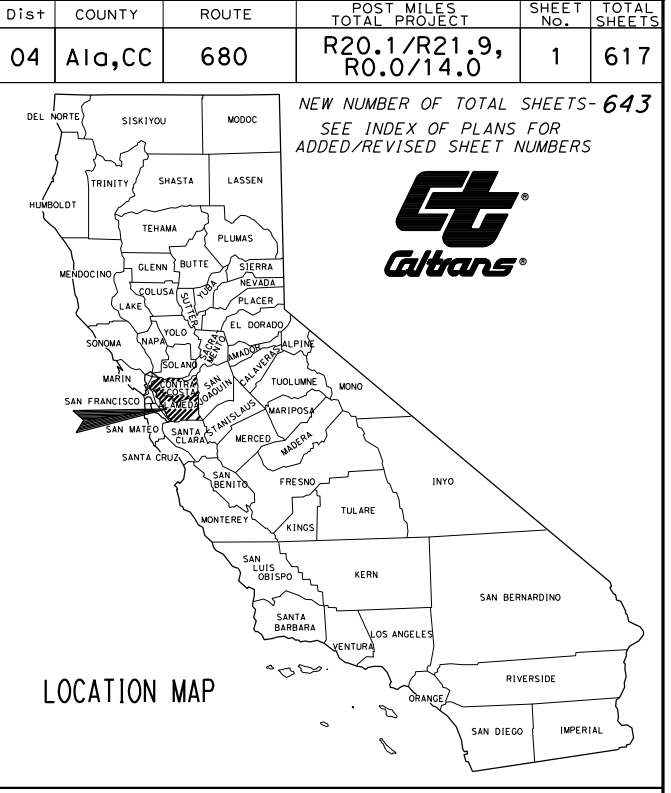
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY



IN ALAMEDA AND CONTRA COSTA COUNTIES
IN DUBLIN, SAN RAMON, DANVILLE
AND WALNUT CREEK

FROM 0.3 MILE SOUTH OF DUBLIN BOULEVARD UNDERCROSSING
TO 0.5 MILE NORTH OF OLYMPIC BOULEVARD UNDERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala,CC	680	R20.1/R21.9, R0.0/14.0	1	617

NEW NUMBER OF TOTAL SHEETS- 643
SEE INDEX OF PLANS FOR
ADDED/REVISED SHEET NUMBERS



REVISED PER ADDENDUM
No. 1 DATED MAY 18, 2015

PROJECT ENGINEER
REGISTERED CIVIL ENGINEER
DATE 04-08-15
REGISTERED PROFESSIONAL ENGINEER
RAMSEY J. HISSEN
No. C39608
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA
PLANS APPROVAL DATE 04-21-15
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

URS CORPORATION
100 W SAN FERNANDO St, SUITE 200
SAN JOSE, CA 95113
Bay Area Infrastructure Financing Authority
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

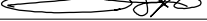
CONTRACT No.	04-3G9504
PROJECT ID	0414000489

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. ALL UTILITIES SHOWN IN THESE PLANS ARE BASED UPON RECORD
INFORMATION OBTAINED FROM UTILITY OWNERS, AND/OR FIELD
SURVEYS OF EXISTING UTILITY SURFACE FEATURES.
3. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE
APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO
CONSTRUCTION. CONTRACTOR SHALL SCHEDULE CONSTRUCTION OPERATIONS
SO THAT UTILITIES ARE KEPT IN SERVICE AT ALL TIMES.
5. UTILITY OWNERSHIP ON THE PROJECT:
CABLE TELEVISION COMCAST
ELECTRIC PG&E, CITY OF SAN RAMON
GAS PG&E
WATER DSRSD, EBMUD
ZONE 7 WATER AGENCY
SANITARY SEWER EBMUD, CCCSD
FIBER OPTIC COMCAST, LEVEL3, AND AT&T
TELEPHONE AT&T, PACIFIC BELL
PETROLLEUM KINDER MORGAN

— w ————— w — WATER LINE - EXISTING
 ---+v-----+v--- U/G CABLE TV LINE - EXISTING
 ---e-----e--- U/G ELECTRICAL CONDUIT - EXISTING
 ---s-----s--- SANITARY SEWER LINE - EXISTING
 ---g-----g--- NATURAL GAS LINE - EXISTING
 ---t-----t--- U/G TELEPHONE LINE - EXISTING
 ---e-----{oh} AERIAL ELECTRICAL LINE - EXISTING
 ---+v-----{oh} AERIAL CABLE TV LINE - EXISTING
 ---j+-----{oh} JOINT OVERHEAD - EXISTING
 ---j+-----j+--- JOINT TRENCH - EXISTING
 ————— CALTRANS TOS - EXISTING
 — fo ————— fo — FIBER OPTIC - EXISTING
 — F0 ————— F0 — PROPOSED FIBER OPTIC RELOCATION
 (SEE EE-SHEETS)

AT&T	AMERICAN TELEPHONE & TELEGRAPH COMPANY
BAIFA	BAY AREA INFRASTRUCTURE FINANCING AUTHORITY
CCCS	CENTRAL CONTRA COSTA SANITARY DISTRICT
Comm	COMMUNICATION
DSRSD	DUBLIN SAN RAMON SERVICES DISTRICT
EBMUD	EAST BAY MUNICIPAL UTILITY DISTRICT
ETS	ELECTRONIC TOLL SYSTEM
FO	FIBER OPTIC
HP	HIGH PRESSURE
JT	JOINT TRENCH
KV	KILOVOLT
OV	OVERHEAD
PG&E	PACIFIC GAS & ELECTRIC COMPANY
PH	POTHOLE
PL	PLASTIC
PLC	PLASTIC COATED STEEL PIPE
PUE	PUBLIC UTILITY EASEMENT
RCW	RECLAIMED WATER
SSMH	SANITARY SEWER MANHOLE
STL	STEEL
TOS	TRAFFIC OPERATIONS SYSTEM
TSP	TUBULAR STEEL POLE
TV	TELEVISION

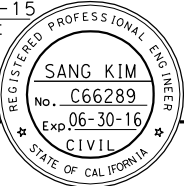
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala, CC	680	R20.1/R21.9, R0.0/14.0	116	617



REGISTERED CIVIL ENGINEER

4-08-15

DATE



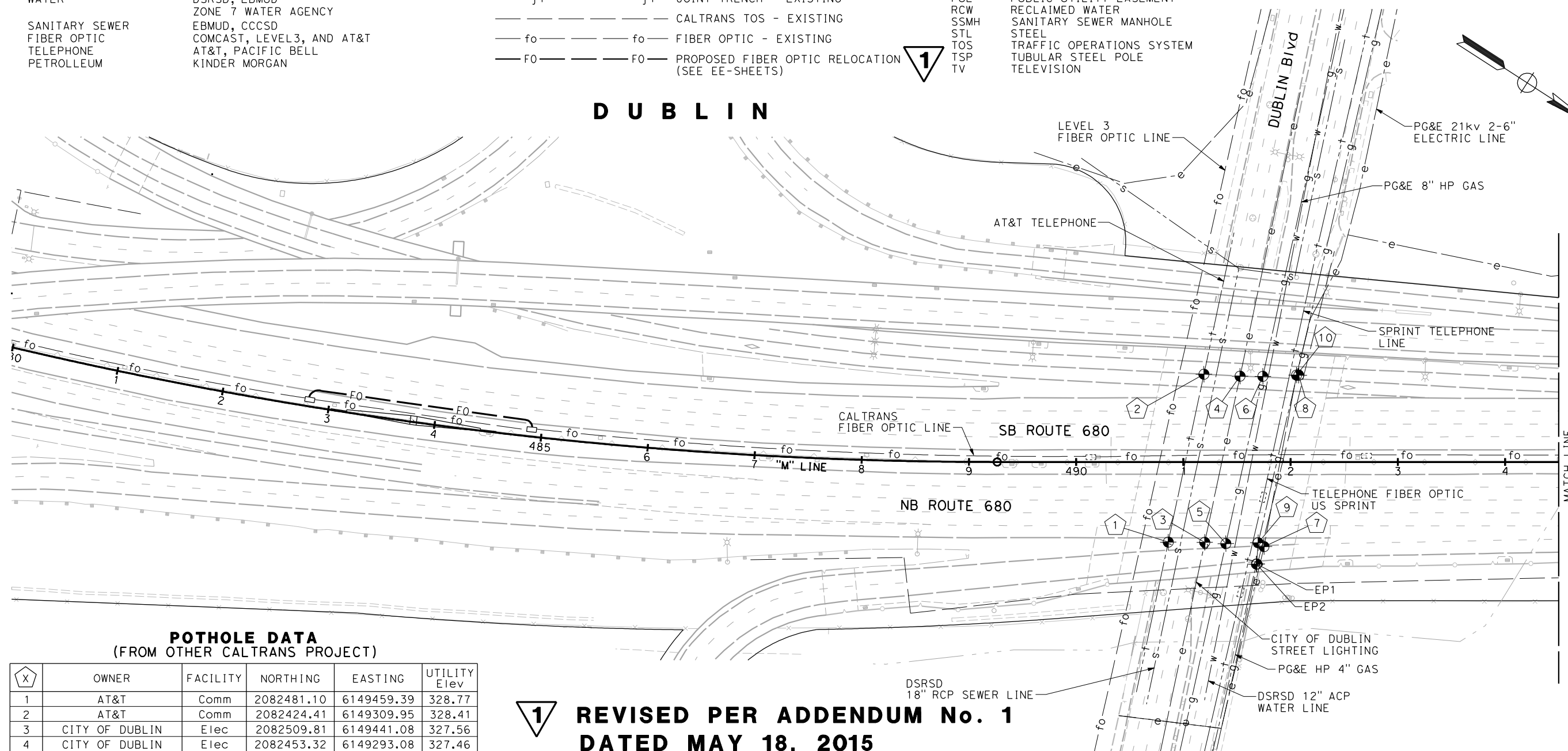
4-21-15


PLANS APPROVAL DATE

*THE STATE OF CALIFORNIA OR ITS OFFICERS
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.*

URS CORPORATION
100 W. SAN FERNANDO ST
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607



<div style="text-align: center;"> POTHOLE DATA (FROM OTHER CALTRANS PROJECT) </div>					
	OWNER	FACILITY	NORTHING	EASTING	UTILITY Elev
1	AT&T	Comm	2082481.10	6149459.39	328.77
2	AT&T	Comm	2082424.41	6149309.95	328.41
3	CITY OF DUBLIN	Elec	2082509.81	6149441.08	327.56
4	CITY OF DUBLIN	Elec	2082453.32	6149293.08	327.46
5	PG&E	HP GAS	2082527.00	6149431.40	327.62
6	PG&E	HP GAS	2082471.29	6149281.66	327.85
7	PG&E	Elec	2082558.37	6149414.41	329.10
8	PG&E	Elec	2082498.89	6149262.67	328.08
9	PG&E	HP GAS	2082551.81	6149414.34	329.03
10	PG&E	HP GAS	2082497.08	6149263.59	328.97

1 **REVISED PER ADDENDUM No. 1**
DATED MAY 18, 2015

No.	OWNER	FACILITY	NORTHING	EASTING	DEPTH (Ft)	TOP OF PIPE Elev (Ft)
EP1	US SPRINT	FO	2082561.61	6149431.75	2.50	334.92
EP2	PG&E	4" GAS	2082561.24	6149431.95	2.67	334.91

UTILITY PLAN

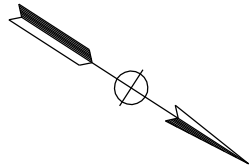
SCALE: 1" = 50'

U-1

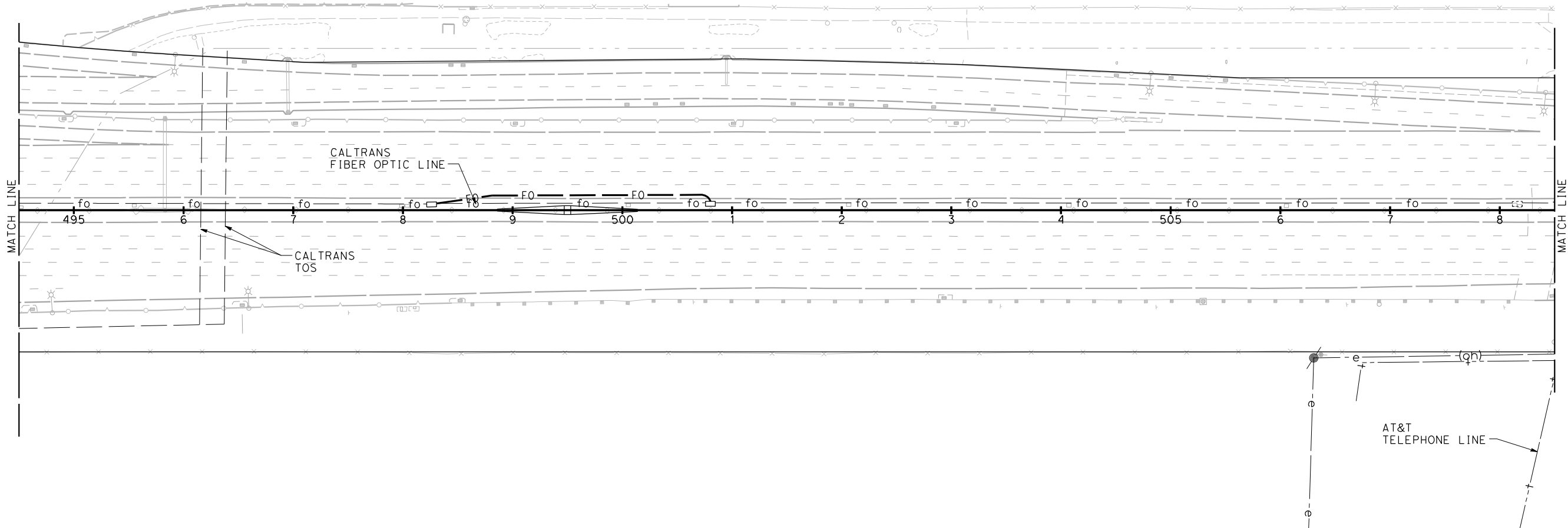
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	SANG KIM	REVISED BY	.
et•Caltrans®	RAMSEY HISSEN	CHECKED BY	KOUROSH LANGARI	DATE REVISED	.

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



D U B L I N



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1



REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

UTILITY PLAN

SCALE: 1" = 50'

U - 2

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY



UNIT 0750

PROJECT NUMBER & PHASE

041 40004891

BORDER LAST REVISED 7/2/2010

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TIME PLOTTED => 1:32:17 PM	4-08-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-DESIGNED BY

CHECKED BY

SANG KIM

KOUROSH LANGARI

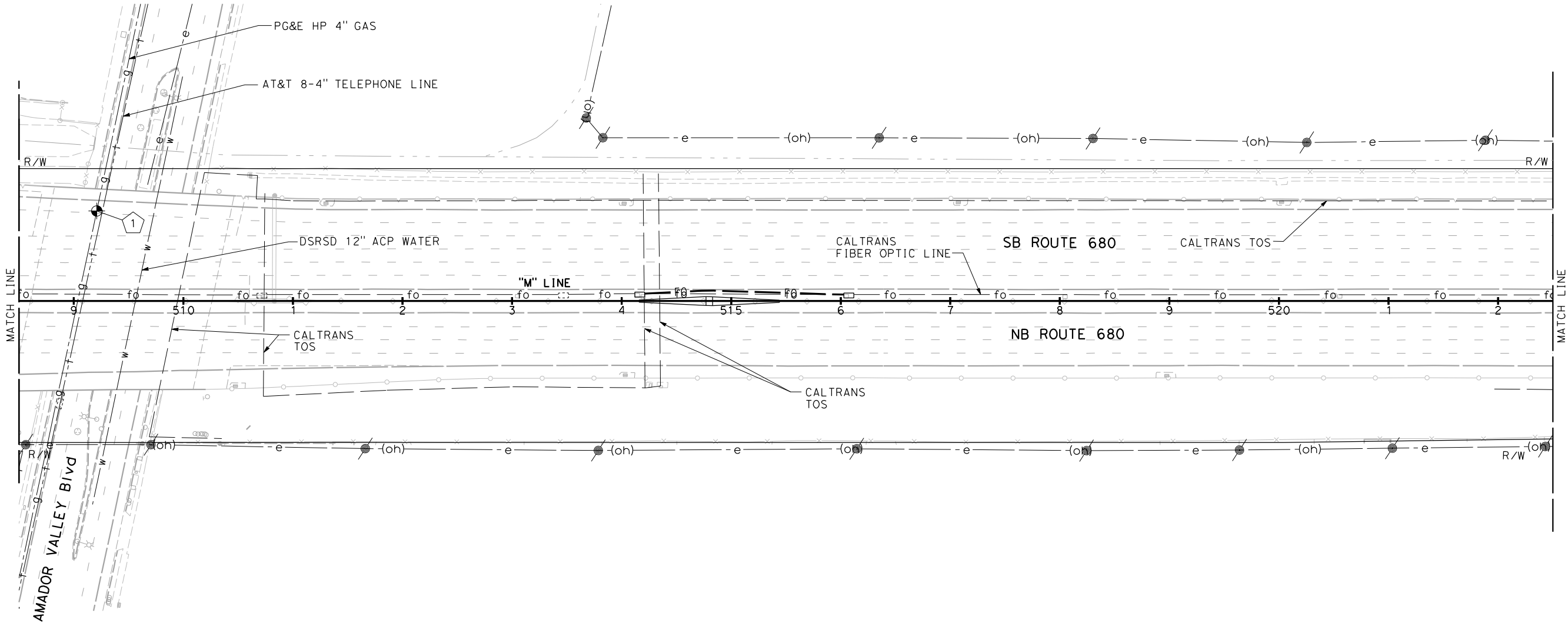
REVISED BY

DATE REVISED

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

POTHOLE DATA (FROM OTHER CALTRANS PROJECT)					
X	OWNER	FACILITY	NORTHING	EASTING	UTILITY Elev
1	PG&E	HP GAS	2083937.17	6148331.57	330.35

NOTE: ELEVATIONS SHOWN REFER TO TOP OF PIPE GRADE ELEVATIONS.



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-3

Dist

COUNTY

ROUTE

POST MILES
TOTAL PROJECT

SHEET
No.

TOTAL
SHEETS

4

Alameda

680

R20.1/R21.9,
R0.0/14.0

118

617

REGISTERED CIVIL ENGINEER

DATE

4-08-15

4-21-15

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
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URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

REGISTERED PROFESSIONAL ENGINEER

SANG KIM

No. C66289

Exp. 06-30-16

CIVIL

STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-DESIGNED BY

CHECKED BY

SANG KIM

KOUROSH LANGARI

REVISED BY

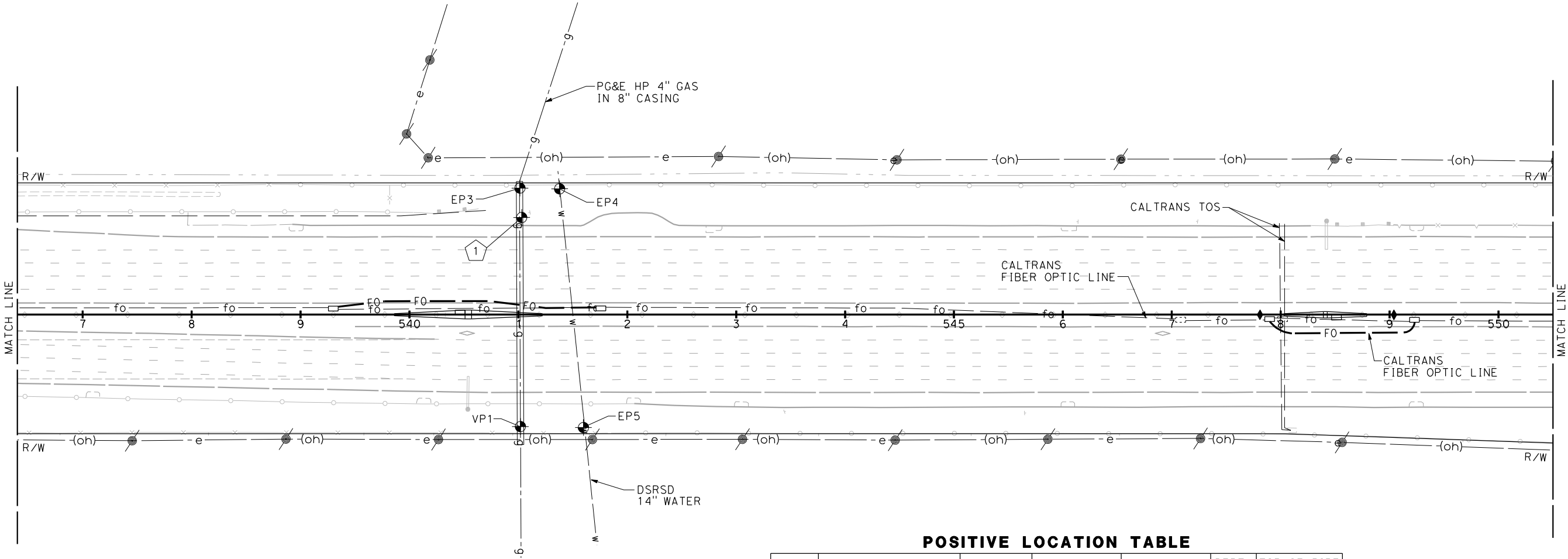
DATE REVISED

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

POTHOLE DATA
(FROM OTHER CALTRANS PROJECT)

<div>X</div>	OWNER	FACILITY	NORTHING	EASTING	UTILITY Elev
1	PG&E	HP GAS	2086605.96	6146598.47	356.17

NOTE: ELEVATIONS SHOWN REFER TO TOP OF PIPE GRADE ELEVATIONS.



POSITIVE LOCATION TABLE

No.	OWNER	FACILITY	NORTHING	EASTING	DEPTH (Ft)	TOP OF PIPE Elev (Ft)
VP1	PG&E	4" GAS	2086709.06	6146760.21	7.50	368.11
EP3	PG&E	4" GAS	2086589.96	6146576.71	6.67	366.18
EP4	DSRSD	14" WATER	2086620.93	6146557.49	11.00	366.51
EP5	DSRSD	14" WATER	2086758.17	6146729.55	14.42	369.62

FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1

1 **REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015**

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-DESIGNED BY

CHECKED BY

SANG KIM

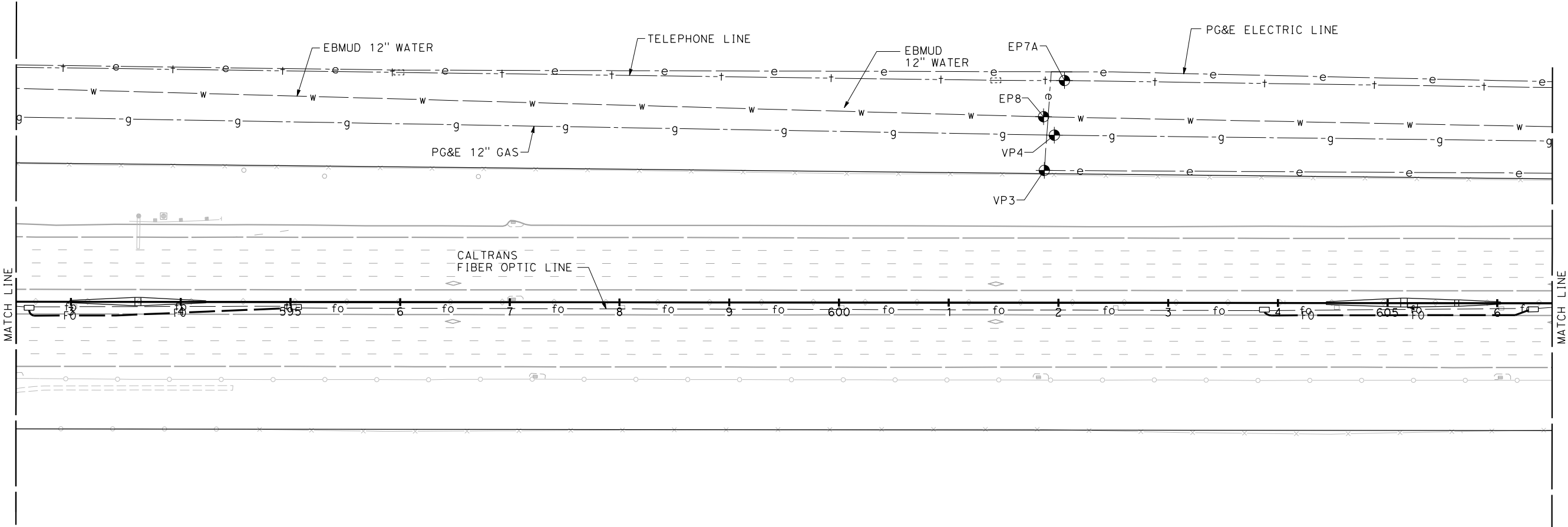
KOUROSH LANGARI

REVISED BY

DATE REVISED

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

POSITIVE LOCATION TABLE						
No.	OWNER	FACILITY	NORTHING	EASTING	DEPTH (Ft)	TOP OF PIPE Elev (Ft)
VP3	PG&E	Elec	2091792.51	6143412.58	2.58	439.50
VP4	PG&E	12" GAS	2091783.90	6143380.22	4.67	440.09
EP7A	AT&T	Tel	2091766.30	6143332.76	2.75	439.80
EP8	EBMUD	12" WATER	2091766.83	6143370.81	3.33	439.97



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1




REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	124	617



REGISTERED CIVIL ENGINEER

4-08-15

DATE

4-21-15

PLANS APPROVAL DATE

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URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

REGISTERED PROFESSIONAL ENGINEER

SANG KIM

No. C66289

Exp. 06-30-16

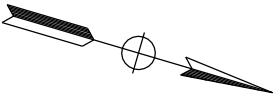
CIVIL

STATE OF CALIFORNIA


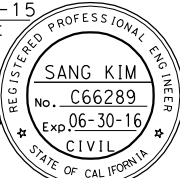
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Caltrans	CONSULTANT FUNCTIONAL SUPERVISOR	DATE	BY	REASON
SANG KIM	CALCULATED BY	DATE	BY	REASON
KOUROSH LANGARI	CHECKED BY	DATE	BY	REASON

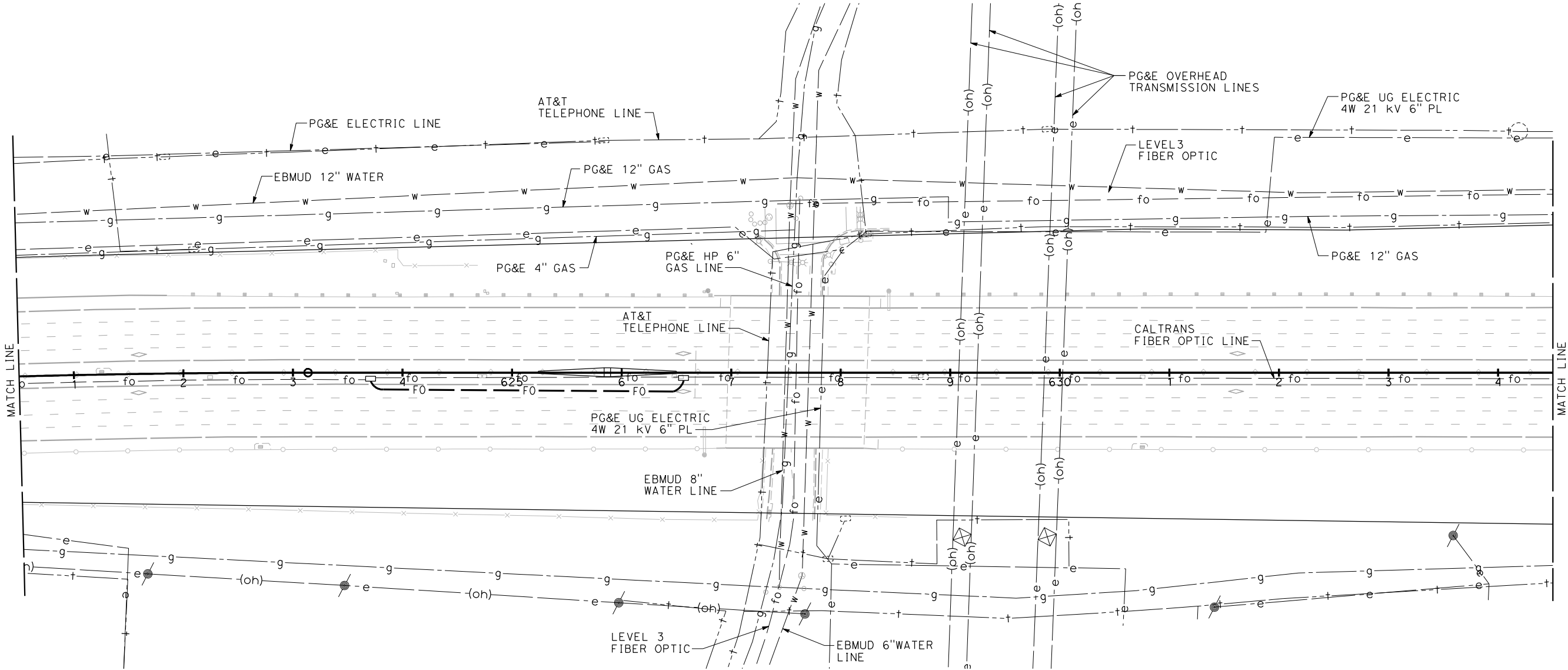
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

1



SAN RAMON

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS		
4	Alameda	680	R20.1/R21.9, R0.0/14.0	126	617		
 REGISTERED CIVIL ENGINEER			4-08-15 DATE				
4-21-15 PLANS APPROVAL DATE							
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.							
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607				



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

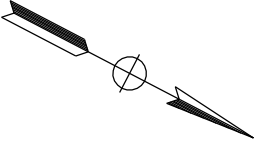
UTILITY PLAN
SCALE: 1" = 50'

U-11


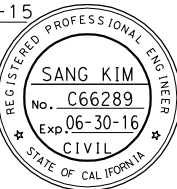
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE	BY	REVISION
Caltrans	CONSULTANT FUNCTIONAL SUPERVISOR	DATE	BY	REVISION
SANG KIM	CHECKED BY	DATE	BY	REVISION
KOUROSH LANGARI	DESIGNED BY	DATE	BY	REVISION
RAMSEY HISSEN	CALCULATED BY	DATE	BY	REVISION

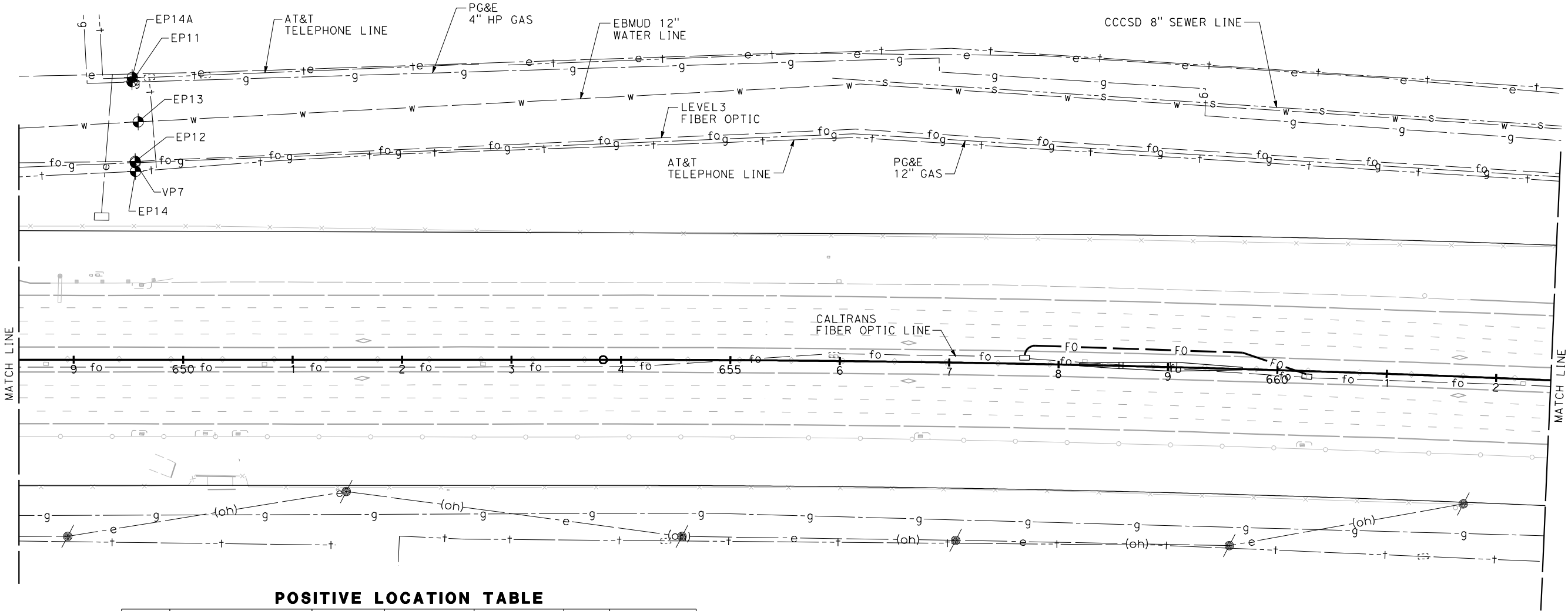
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

SAN RAMON



1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS		
4	Alameda	680	R20.1/R21.9, R0.0/14.0	128	617		
 REGISTERED CIVIL ENGINEER			4-08-15 DATE				
4-21-15 PLANS APPROVAL DATE							
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.							
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607				



POSITIVE LOCATION TABLE

No.	OWNER	FACILITY	NORTHING	EASTING	DEPTH (Ft)	TOP OF PIPE Elev (Ft)
VP7	PG&E	12" GAS	2095949.06	6141060.11	4.58	415.33
EP11	PG&E	4" GAS	2095912.14	6140995.80	3.00	415.67
EP12	LEVEL 3	FO	2095948.40	6141059.09	2.75	415.38
EP13	EBMUD	12" WATER	2095934.13	6141025.80	3.42	416.70
EP14	AT&T	Tel	2095952.86	6141067.06	3.42	415.12
EP14A	AT&T	Tel	2095910.54	6140992.33	1.83	415.36

FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-BY

CHECKED BY

SANG KIM

KOUROSH LANGARI

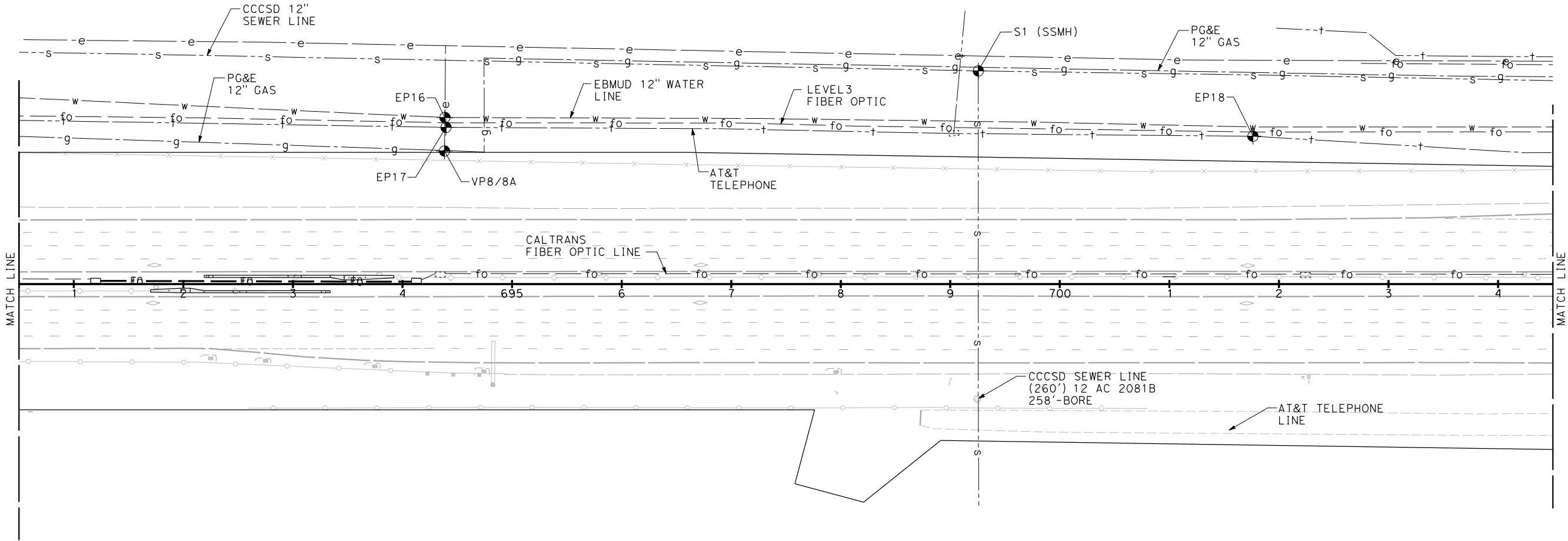
REVISED BY

DATE REVISED

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

No.	OWNER	FACILITY	NORTHING	EASTING	DEPTH (F+)	TOP OF PIPE Elev (F+)
VP8	PG&E	12" GAS	2100020.04	6139176.10	3.92	444.05
VP8A	PG&E	UG Elec	2100020.04	6139176.10	2.17	445.80?
EP16	EBMUD	12" WATER	2100006.75	6139148.55	4.83	444.94
EP17	AT&T	Tel	2100011.67	6139156.15	4.17	444.92
EP18	AT&T	Tel	2100674.42	6138834.95	8.50	444.81
S1	CCCSD	SSMH	2100423.55	6138893.32	7.58	442.20

* REFER TO TOP OF LID GRADE ELEVATIONS.



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1



REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY



UNIT 0750

PROJECT NUMBER & PHASE

04140004891

UTILITY PLAN
SCALE: 1" = 50'

U-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	131	617

REGISTERED CIVIL ENGINEER
DATE 4-08-15

4-21-15
PLANS APPROVAL DATE

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URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

SANG KIM
No. C66289
Exp. 06-30-16
CIVIL
STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-DESIGNED BY

CHECKED BY

SANG KIM

KOUROSH LANGARI

REVISED BY

DATE REVISED

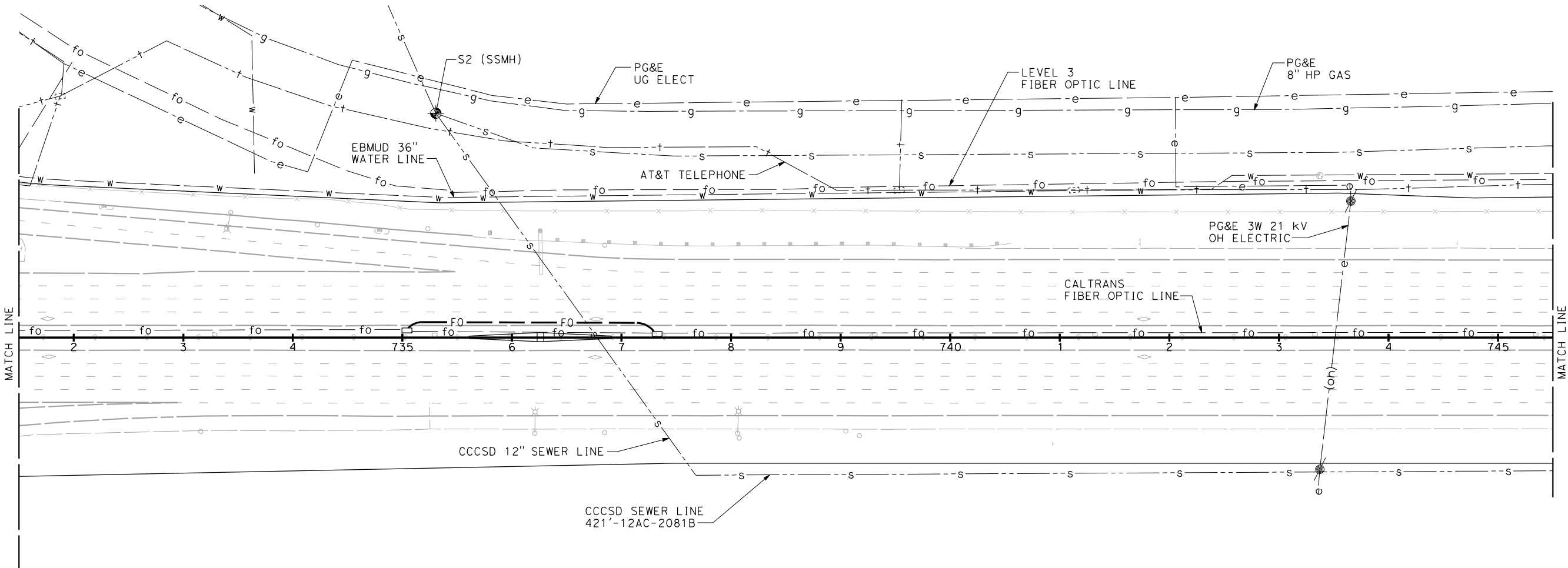
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

SAN RAMON

POSITIVE LOCATION TABLE

No.	OWNER	FACILITY	NORTHING	EASTING	DEPTH (Ft)	TOP OF PIPE Elev (Ft)
S2	CCCSD	SSMH	2103645.53	6137276.39	5.33	473.56 *

* REFER TO TOP OF LID GRADE ELEVATIONS.



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	134	617

REGISTERED CIVIL ENGINEER

4-08-15
DATE

4-21-15
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
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COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER

SANG KIM

No. C66289

Exp. 06-30-16

CIVIL

STATE OF CALIFORNIA

URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-DESIGNED BY

CHECKED BY

SANG KIM

KOUROSH LANGARI

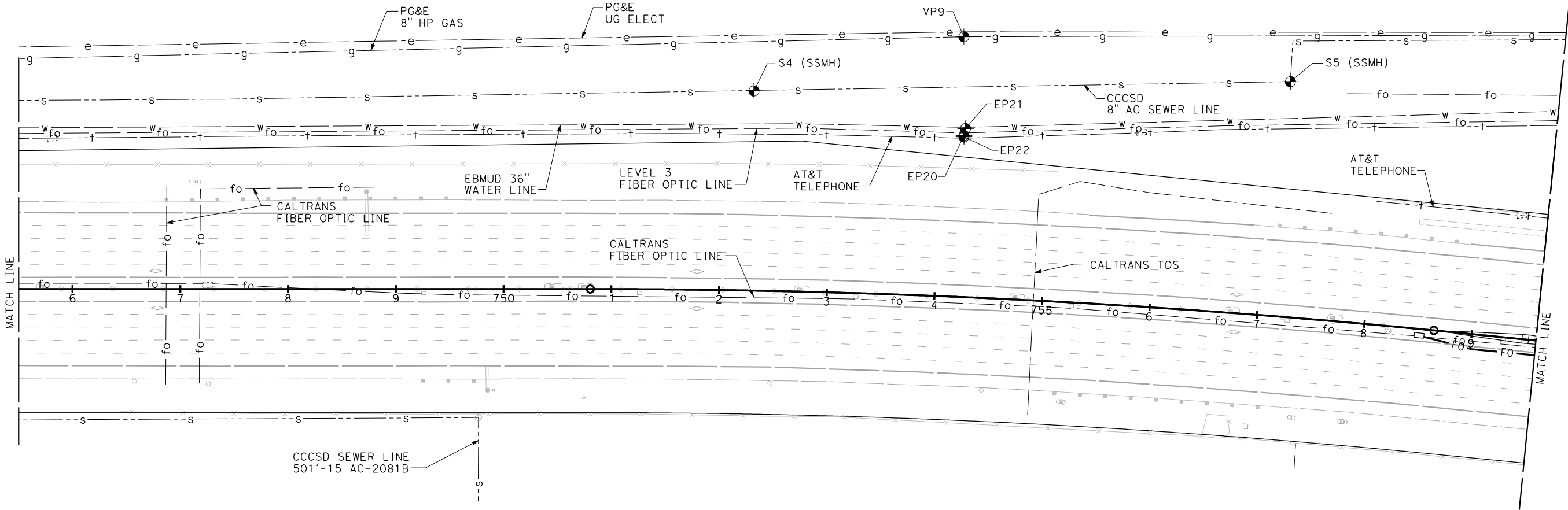
REVISED BY

DATE REVISED

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

POSITIVE LOCATION TABLE						
No.	OWNER	FACILITY	NORTHING	EASTING	DEPTH (Ft)	TOP OF PIPE Elev (Ft)
S4	CCCCSD	SSMH	2105178.11	6136536.10	11.92	491.26
S5	CCCCSD	SSMH	2105619.89	6136306.31	8.58	491.56
VP9	PG&E	GAS	2105330.05	6136404.16	4.83	493.49
EP20	Level 3	FO	2105370.96	6136486.20	7.00	492.73
EP21	EBMUD	36" WATER	2105369.41	6136479.79	7.00	493.13
EP22	AT&T	Tel	2105371.56	6136487.30	7.00	492.59

* REFER TO TOP OF LID GRADE ELEVATIONS.



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1

1 **REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015**

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-20

Dist COUNTY ROUTE POST MILES TOTAL PROJECT SHEET TOTAL 4 Alameda 680 R20.1/R21.9, R0.0/14.0 No. 135 SHEETS 617

REGISTERED CIVIL ENGINEER 4-08-15 DATE

4-21-15 PLANS APPROVAL DATE

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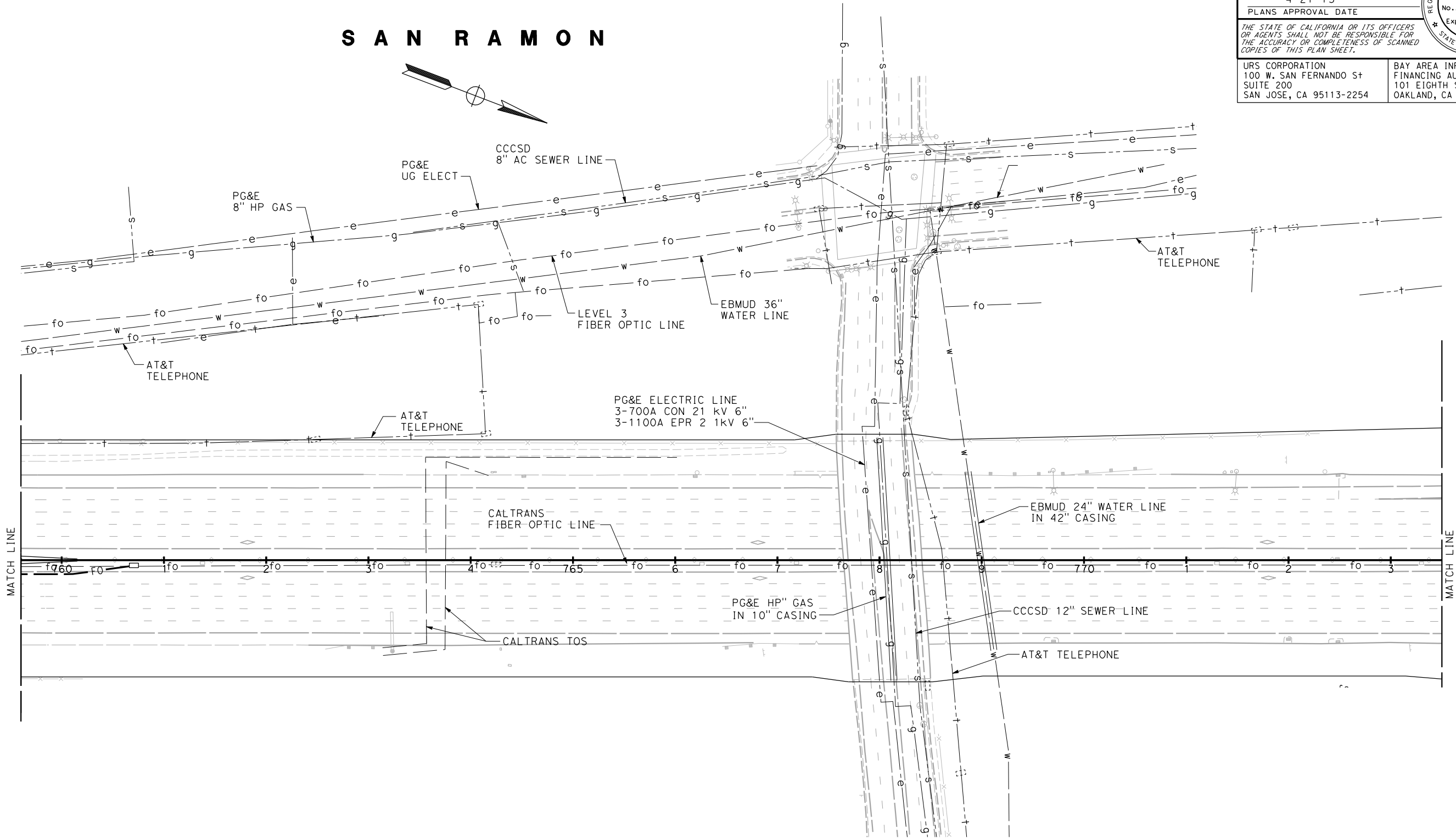
URS CORPORATION 100 W. SAN FERNANDO St SUITE 200 SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH St, 3rd Floor OAKLAND, CA 94607

SANG KIM No. C66289 Exp. 06-30-16 CIVIL STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	SANG KIM	REVISOR	DATE
RAMSEY HUSSEN	CHECKED BY	KOUROSH LANGARI	SANG KIM	REVISOR	DATE

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1


1 **REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015**

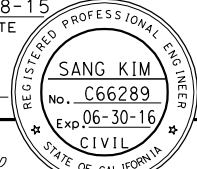
THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	136	617


REGISTERED CIVIL ENGINEER
DATE 4-08-15



4-21-15
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
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URS CORPORATION
100 W. SAN FERNANDO ST
SUITE 200
SAN JOSE, CA 95113-2254

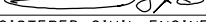

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH ST, 3rd Floor
OAKLAND, CA 94607

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	SANG KIM	REVISED BY	.
et•Caltrans®	RAMSEY HISSEN	CHECKED BY	KOUROSH LANGARI	DATE REVISED	.

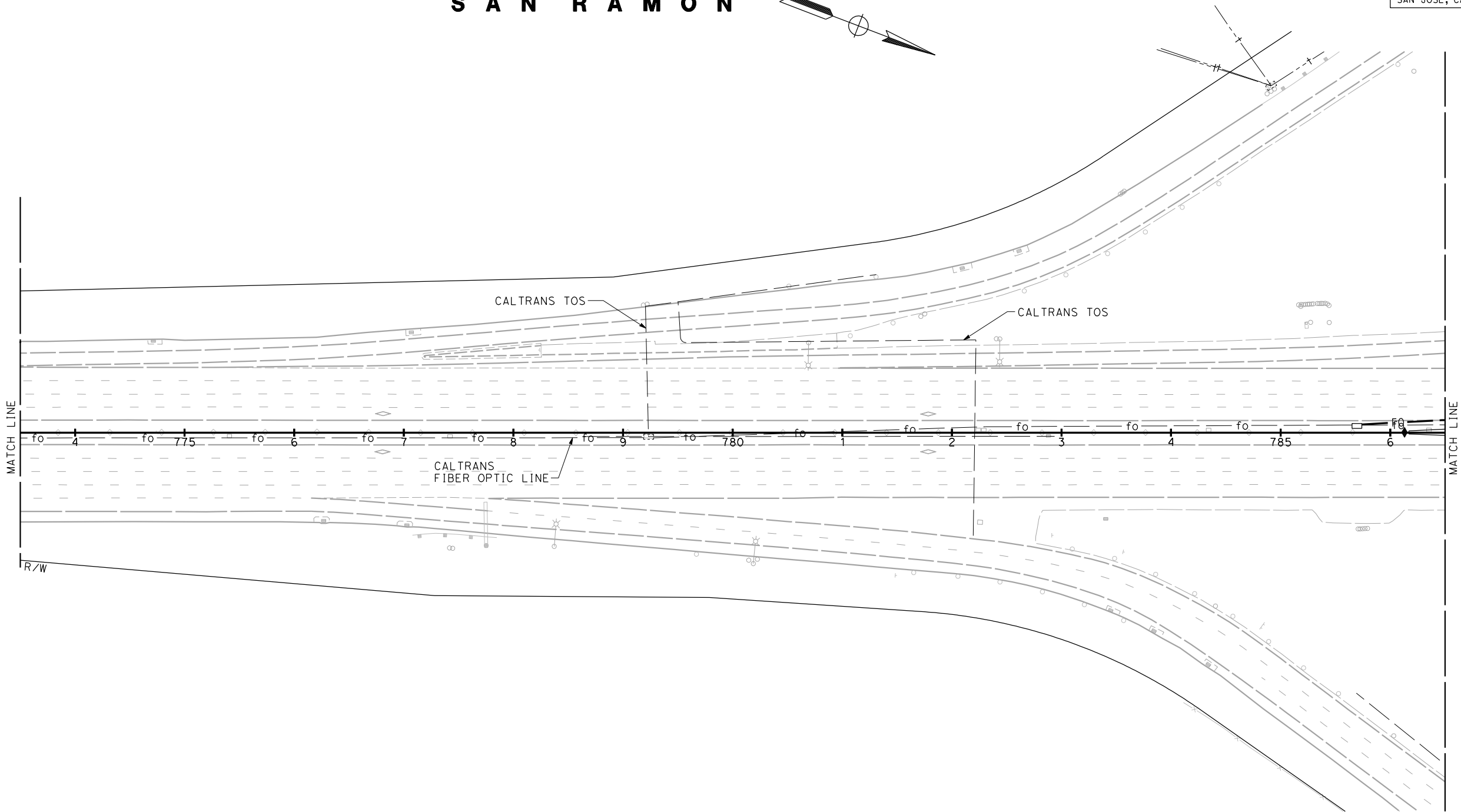
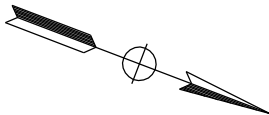
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	137	617
 REGISTERED CIVIL ENGINEER			4-08-15 DATE		
4-21-15 PLANS APPROVAL DATE					
<p>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</p>					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		

S A N R A M O N



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1



REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY



UNIT 0750

PROJECT NUMBER & PHASE

041 40004891

UTILITY PLAN

SCALE: 1" = 50'

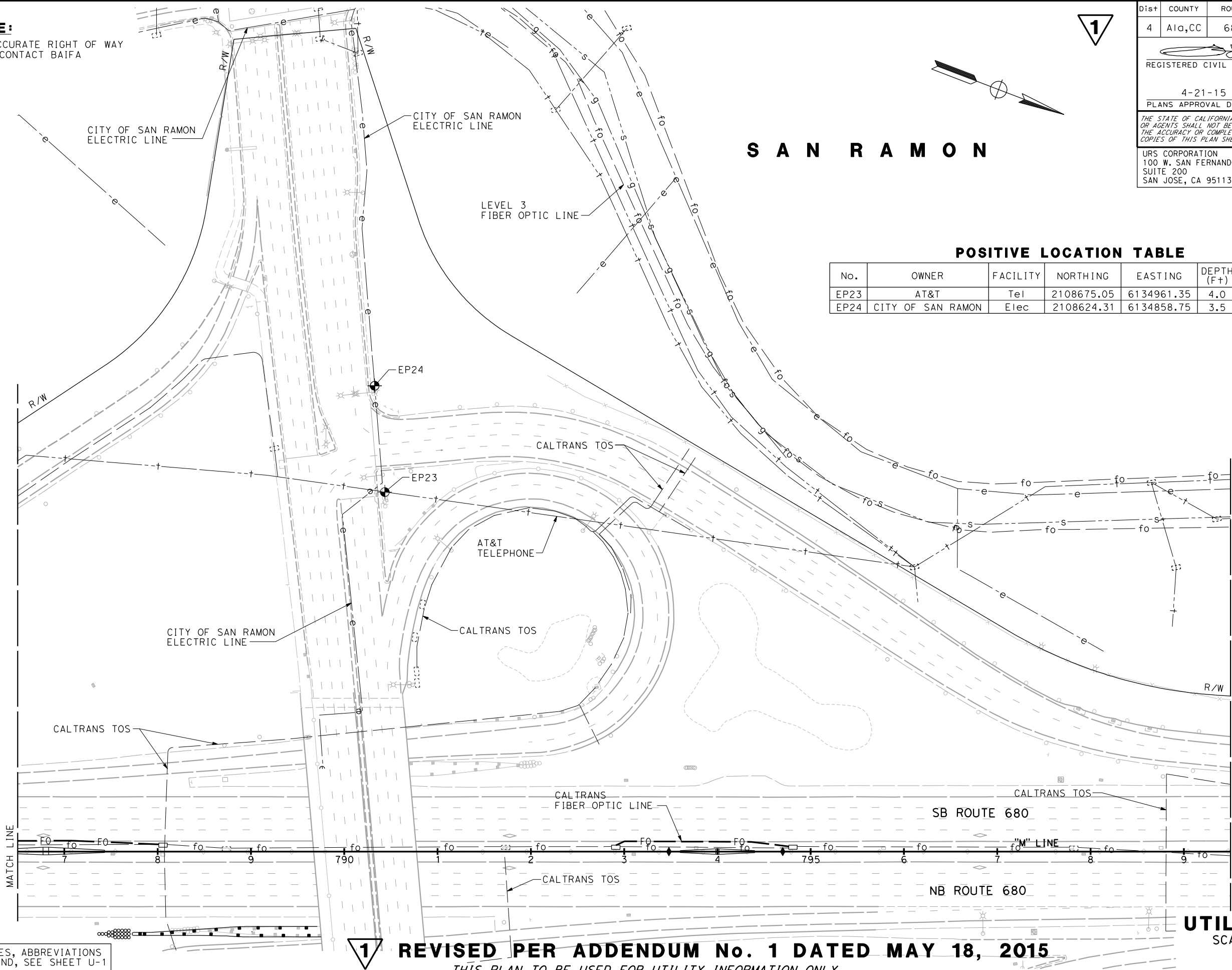
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TIME PLOTTED => 1:32:37 PM	4-08-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	SANG KIM	REVISOR	DATE
RAMSEY HUSSEN	CHECKED BY	KOUROSH LANGARI	DATE	REVISOR	DATE

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



POSITIVE LOCATION TABLE

No.	OWNER	FACILITY	NORTHING	EASTING	DEPTH (Ft)	TOP OF PIPE Elev (Ft)
EP23	AT&T	TeI	2108675.05	6134961.35	4.0	501.62
EP24	CITY OF SAN RAMON	Elec	2108624.31	6134858.75	3.5	499.05

UTILITY PLAN

SCALE: 1" = 50'

U-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-DESIGNED BY

CHECKED BY

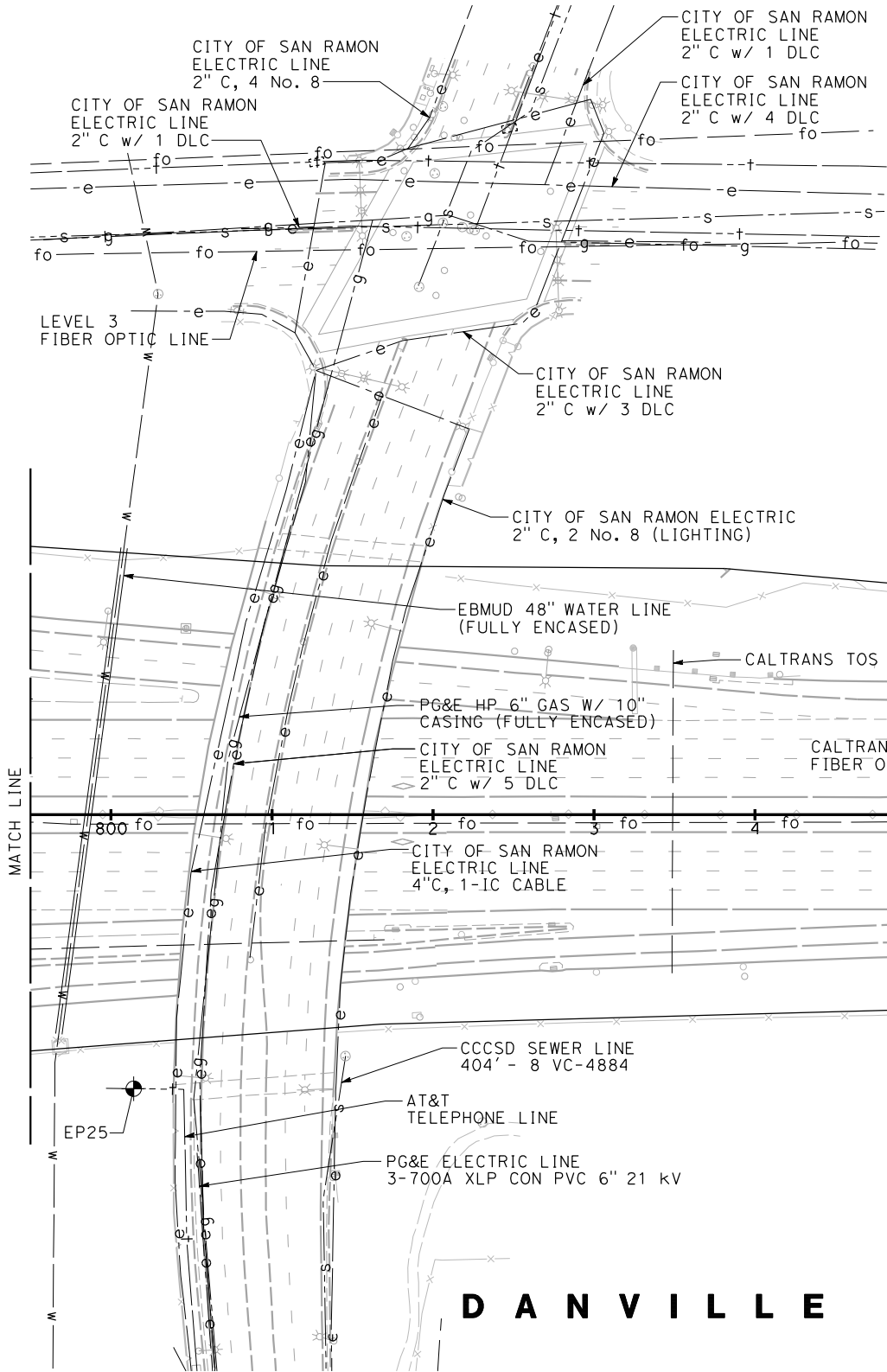
SANG KIM

KOUROSH LANGARI

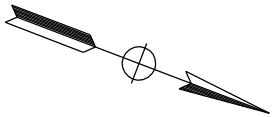
REVISED BY

DATE REVISED

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



SAN RAMON



POSITIVE LOCATION TABLE

No.	OWNER	FACILITY	NORTHING	EASTING	DEPTH (Ft)	TOP OF PIPE Elev (Ft)
EP25	AT&T	Tel	2109779.85	6135134.67	4.75	479.71

Dist COUNTY ROUTE POST MILES TOTAL PROJECT SHEET No. TOTAL SHEETS

4 Alameda 680 R20.1/R21.9, R0.0/14.0 139 617

REGISTERED CIVIL ENGINEER 4-08-15 DATE

4-21-15 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607

SANG KIM No. C66289 Exp. 06-30-16 CIVIL STATE OF CALIFORNIA

FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-24


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-BY DESIGNED BY	CHECKED BY	SANG KIM KOUROSH LANGARI	REVISED BY	DATE REVISED
RAMSEY HISSEN						


NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

DANVILLE

1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	142	617

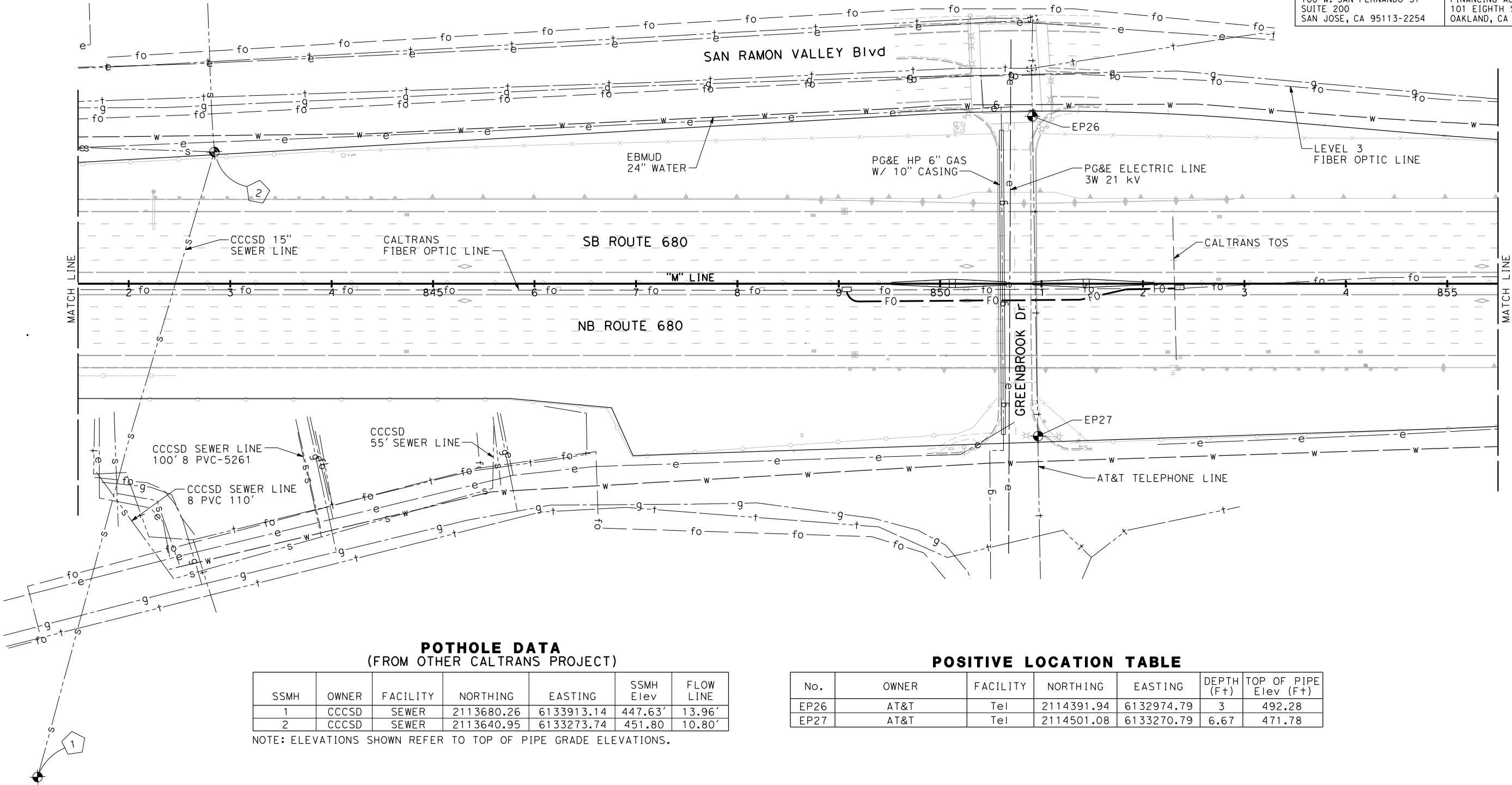

REGISTERED CIVIL ENGINEER
DATE 4-08-15



4-21-15
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.

URS CORPORATION 100 W. SAN FERNANDO St SUITE 200 SAN JOSE, CA 95113-2254	BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH St, 3rd Floor OAKLAND, CA 94607
---	---



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

UTILITY PLAN
SCALE: 1" = 50'

U-27

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED BY

DESIGNED BY

CHECKED BY

SANG KIM

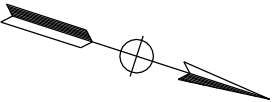
KOUROSH LANGARI

REVISED BY

DATE REVISED


NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

DANVILLE

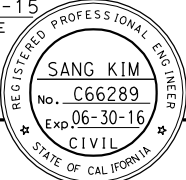


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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	146	617


REGISTERED CIVIL ENGINEER
DATE 4-08-15

4-21-15
PLANS APPROVAL DATE



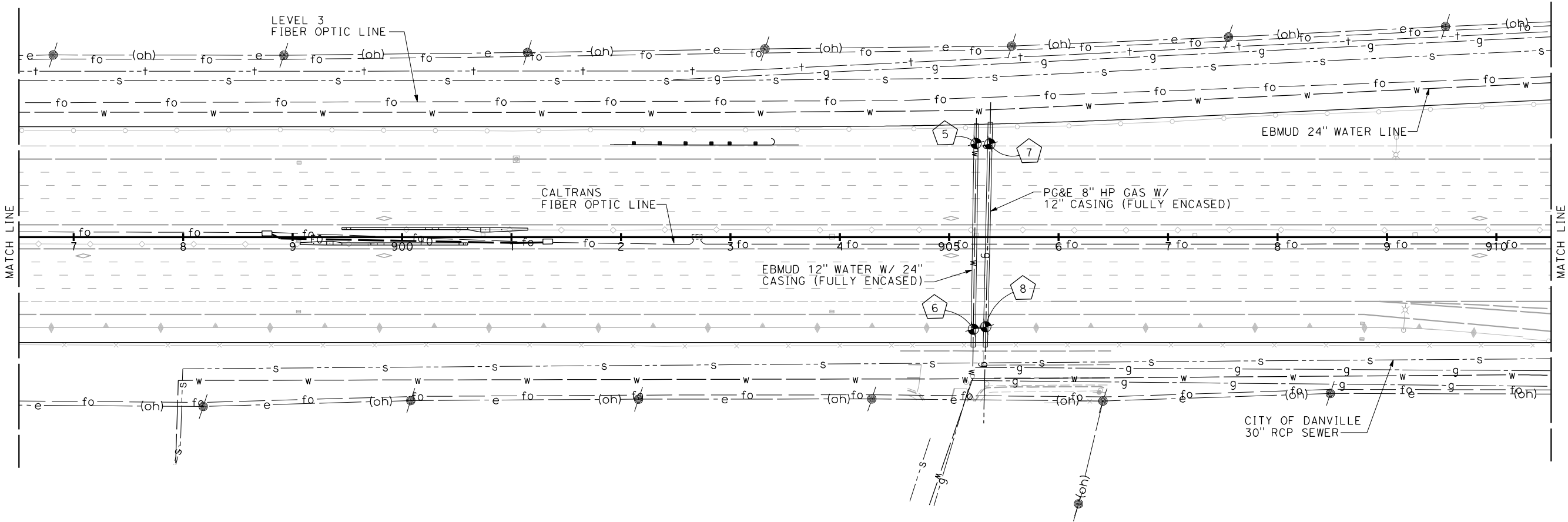
URS CORPORATION
100 W. SAN FERNANDO ST
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH ST, 3rd Floor
OAKLAND, CA 94607

POTHOLE DATA
(FROM OTHER CALTRANS PROJECT)

POTHOLE No.	OWNER	FACILITY	NORTHING	EASTING	GROUND Elev	DEPTH
5	EBMUD	WATER	2119411	6130952	415.63'	7.83'
6	EBMUD	WATER	2119461	6131114	411.68'	5.12'
7	PG&E	GAS	2119423	6130949	414.67'	8.42'
8	PG&E	GAS	2119471	6131109	411.80'	6.92'

NOTE: ELEVATIONS SHOWN REFER TO TOP OF PIPE GRADE ELEVATIONS.



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

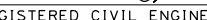

U-31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	SANG KIM	REVISED BY	.
etb® Caltrans®		RAMSEY HISSEN	CHECKED BY	KOUROSH LANGARI	DATE REVISED	.

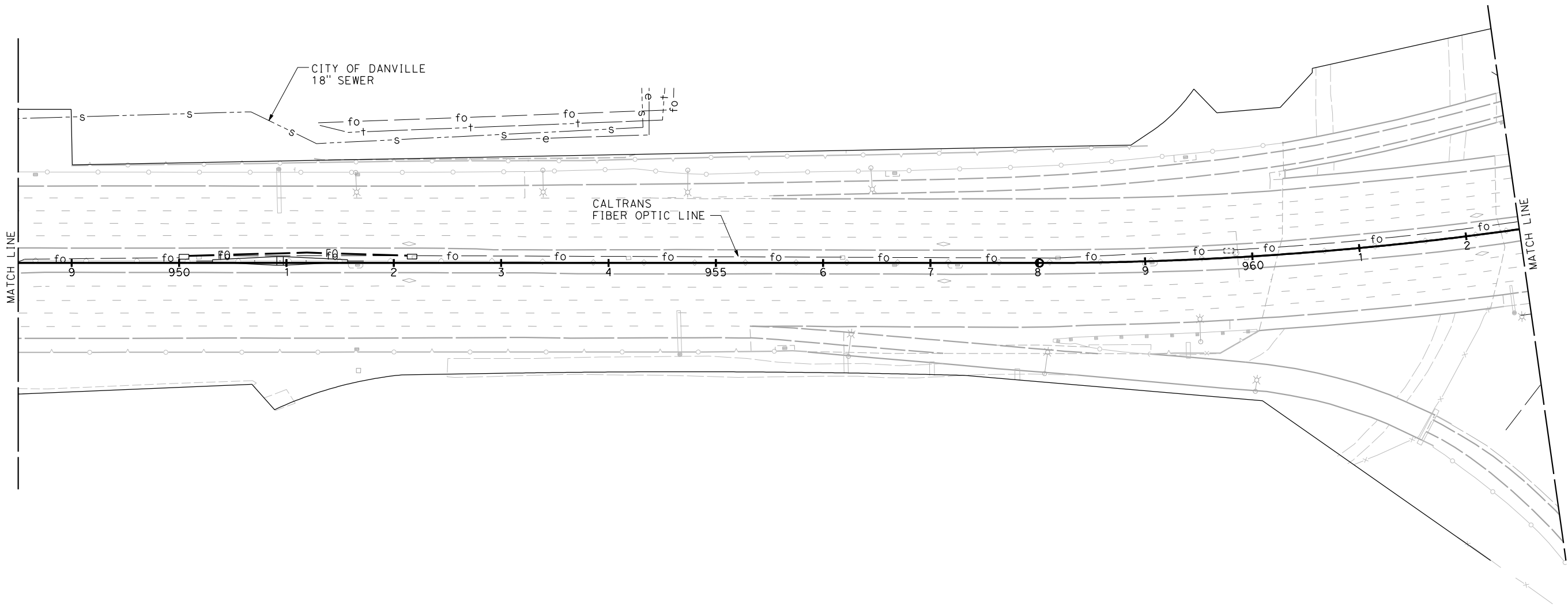
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	150	617
 _____ REGISTERED CIVIL ENGINEER			4-08-15 _____ DATE		
4-21-15 _____ PLANS APPROVAL DATE					
<p>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</p>					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		

DANVILLE



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1



REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

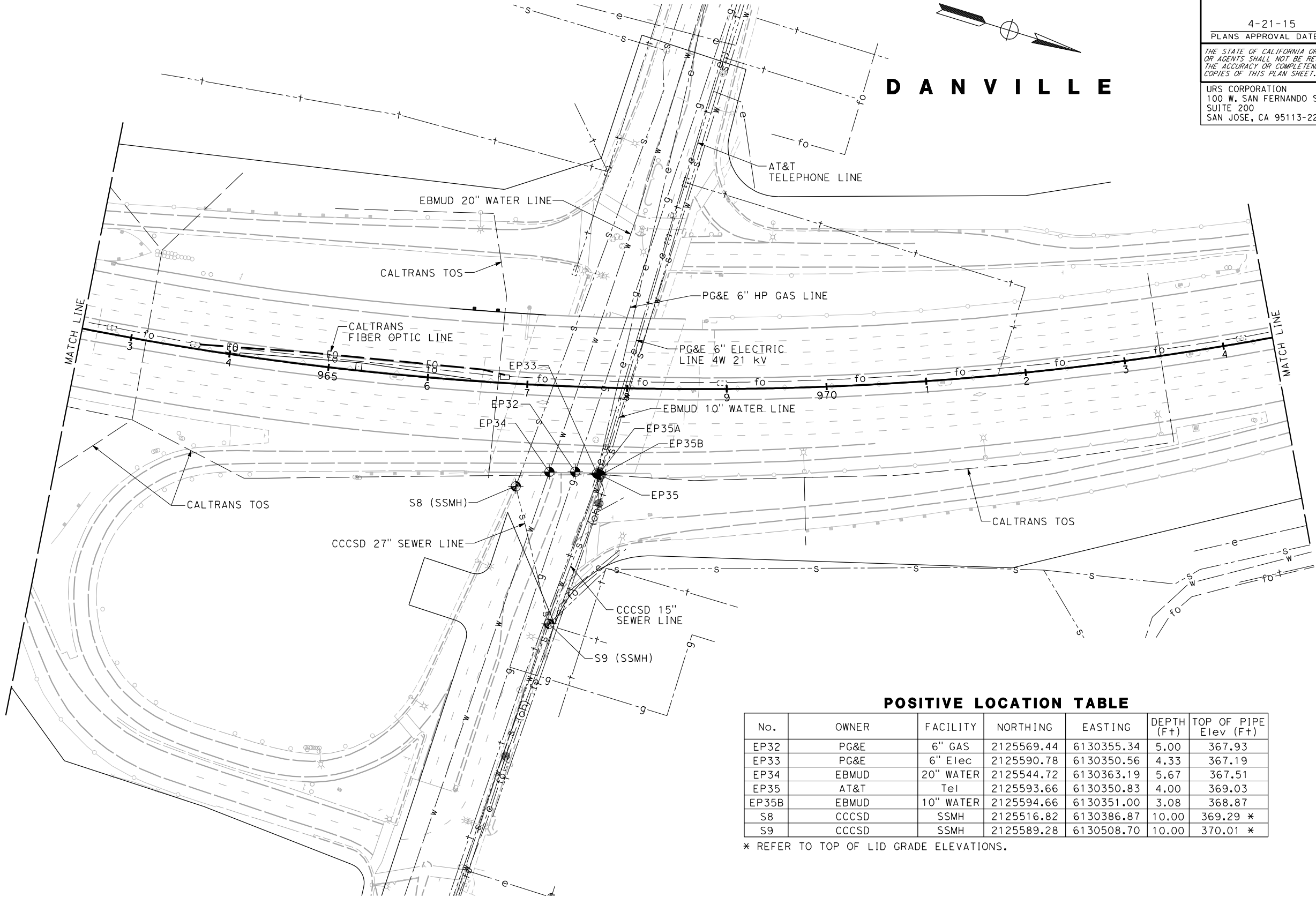
UTILITY PLAN

SCALE: 1" = 50'

U - 35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	CHECKED BY	SANG KIM	REVISOR	DATE
RAMSEY HISSIN	KOUROSH LANGARI	SANG KIM	REVISOR	DATE	REVISOR	DATE

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



POSITIVE LOCATION TABLE

No.	OWNER	FACILITY	NORTHING	EASTING	DEPTH (Ft)	TOP OF PIPE Elev (Ft)
EP32	PG&E	6" GAS	2125569.44	6130355.34	5.00	367.93
EP33	PG&E	6" Elec	2125590.78	6130350.56	4.33	367.19
EP34	EBMUD	20" WATER	2125544.72	6130363.19	5.67	367.51
EP35	AT&T	Tel	2125593.66	6130350.83	4.00	369.03
EP35B	EBMUD	10" WATER	2125594.66	6130351.00	3.08	368.87
S8	CCCSD	SSMH	2125516.82	6130386.87	10.00	369.29 *
S9	CCCSD	SSMH	2125589.28	6130508.70	10.00	370.01 *

* REFER TO TOP OF LID GRADE ELEVATIONS.

FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1

1 **REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015**

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-36

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-DESIGNED BY

CHECKED BY

SANG KIM

KOUROSH LANGARI

REVISOR

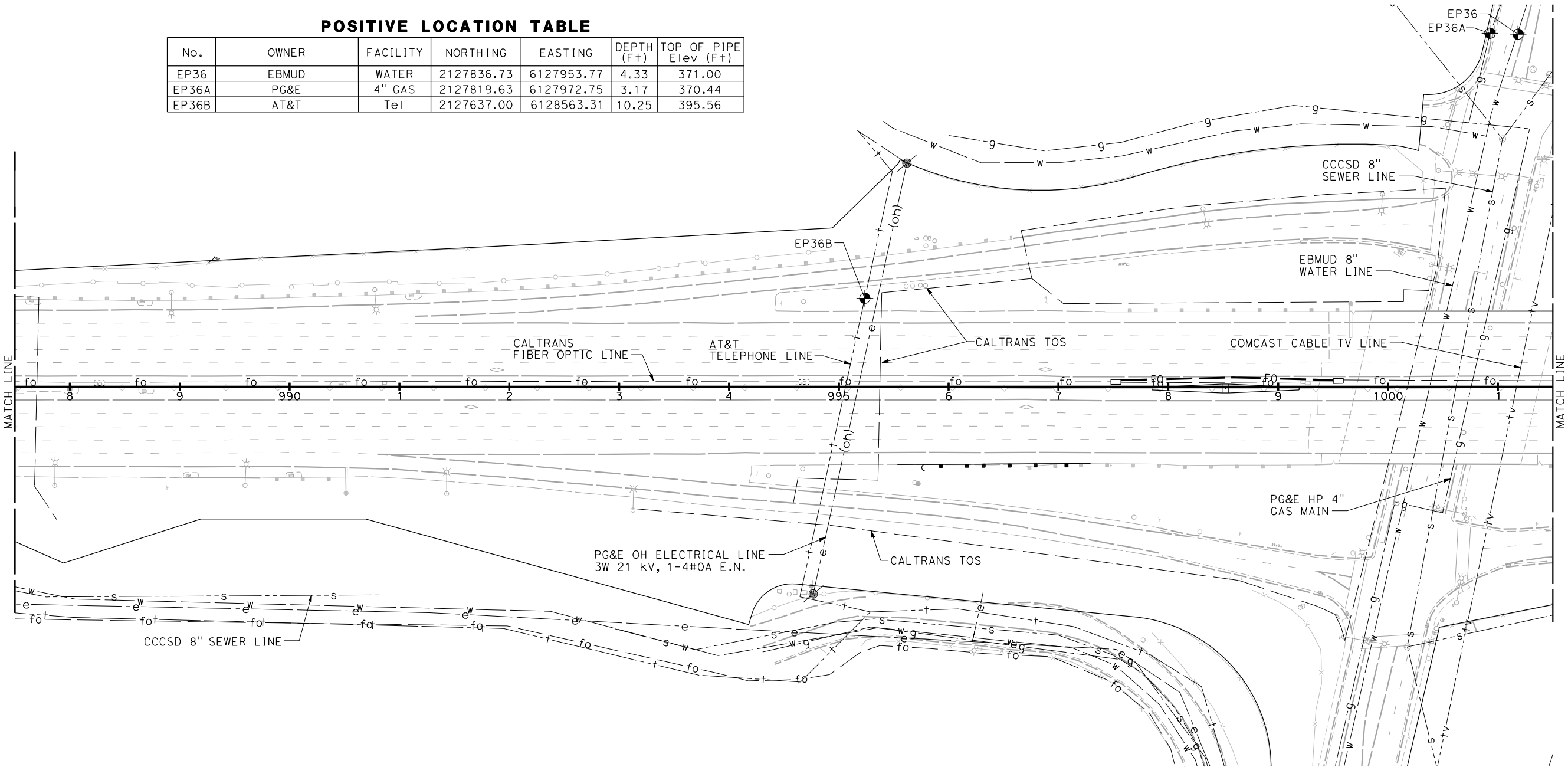
DATE

REVISION

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

POSITIVE LOCATION TABLE

No.	OWNER	FACILITY	NORTHING	EASTING	DEPTH (Ft)	TOP OF PIPE Elev (Ft)
EP36	EBMUD	WATER	2127836.73	6127953.77	4.33	371.00
EP36A	PG&E	4" GAS	2127819.63	6127972.75	3.17	370.44
EP36B	AT&T	Tel	2127637.00	6128563.31	10.25	395.56



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1



REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-38

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-DESIGNED BY

CHECKED BY

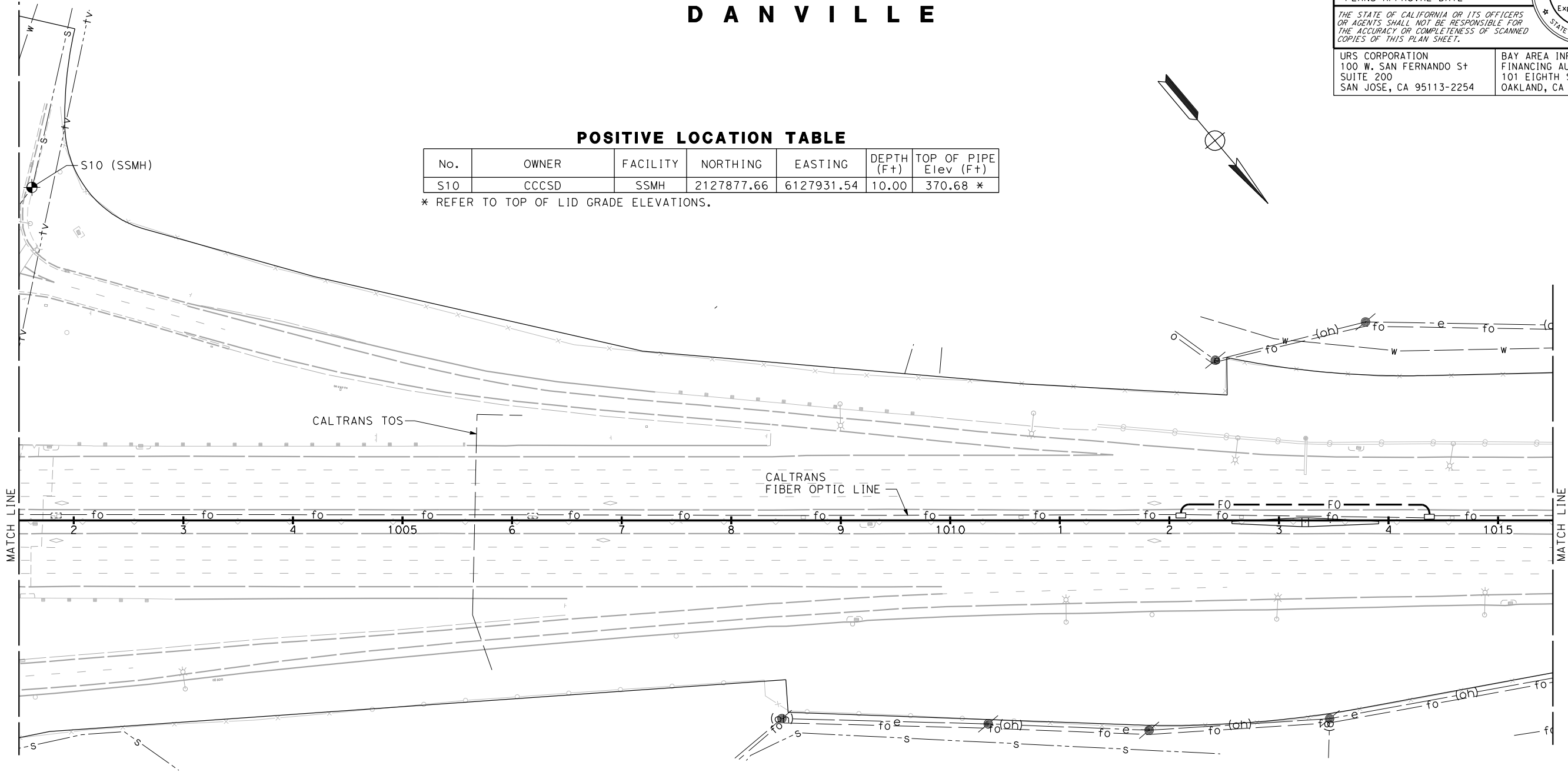
SANG KIM

KOUROSH LANGARI

REVISED BY

DATE REVISED

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



DANVILLE

POSITIVE LOCATION TABLE

No.	OWNER	FACILITY	NORTHING	EASTING	DEPTH (Ft)	TOP OF PIPE Elev (Ft)
S10	CCCSD	SSMH	2127877.66	6127931.54	10.00	370.68 *

* REFER TO TOP OF LID GRADE ELEVATIONS.

FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1



REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	154	617

REGISTERED CIVIL ENGINEER

4-08-15
DATE

4-21-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER

SANG KIM

No. C66289

Exp. 06-30-16

CIVIL

STATE OF CALIFORNIA

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THE ACCURACY OR COMPLETENESS OF SCANNED
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URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	SANG KIM	REVISOR	DATE

Caltrans

RAMSEY HESSEN

CHECKED BY

SANG KIM

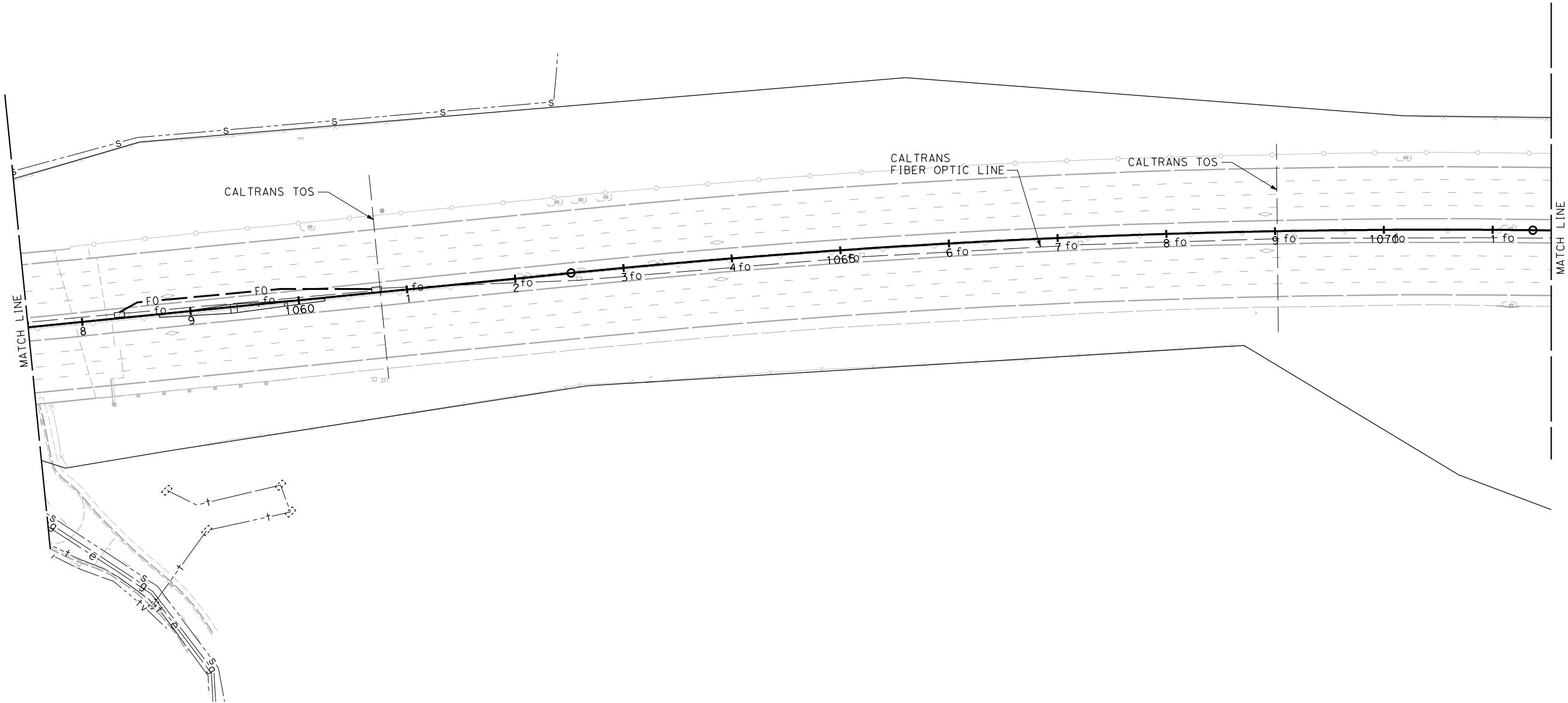
REVISOR

DATE

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

DANVILLE

Alamo



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1


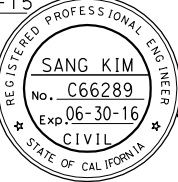


REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

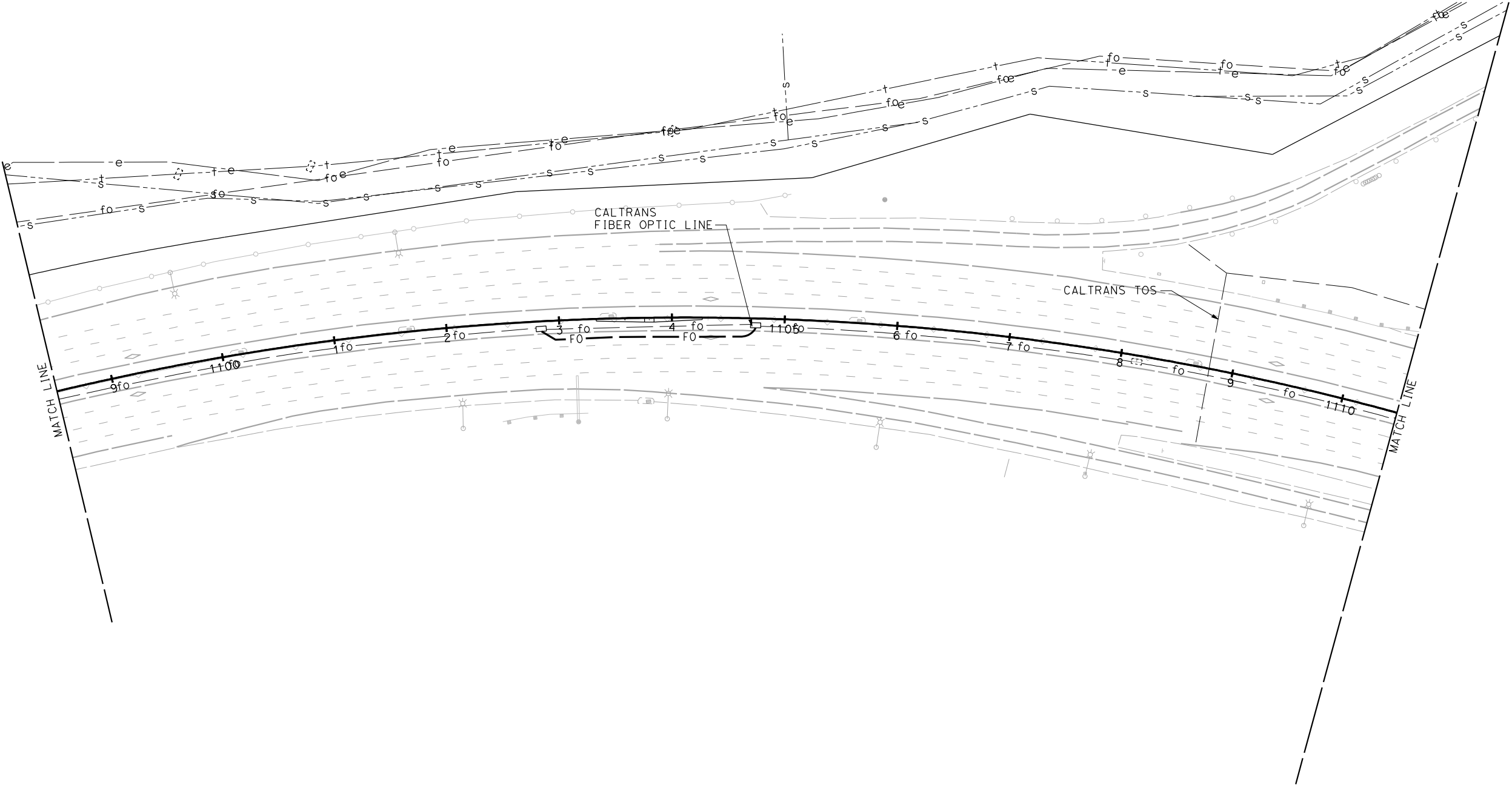
U-43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala,CC	680	R20.1/R21.9, R0.0/14.0	158	617
 REGISTERED CIVIL ENGINEER			4-08-15 DATE		
4-21-15 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	SANG KIM	REVISOR	DATE
RAMSEY HESSEN	CHECKED BY	KOUROSH LANGARI	DATE	REVISOR	DATE

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

A l a m o



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1


1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

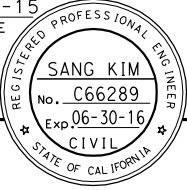
THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	161	617


REGISTERED CIVIL ENGINEER
DATE 4-08-15



4-21-15
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
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THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.

URS CORPORATION
100 W. SAN FERNANDO ST
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH ST, 3rd Floor
OAKLAND, CA 94607

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-D
DESIGNED BY

CHECKED BY

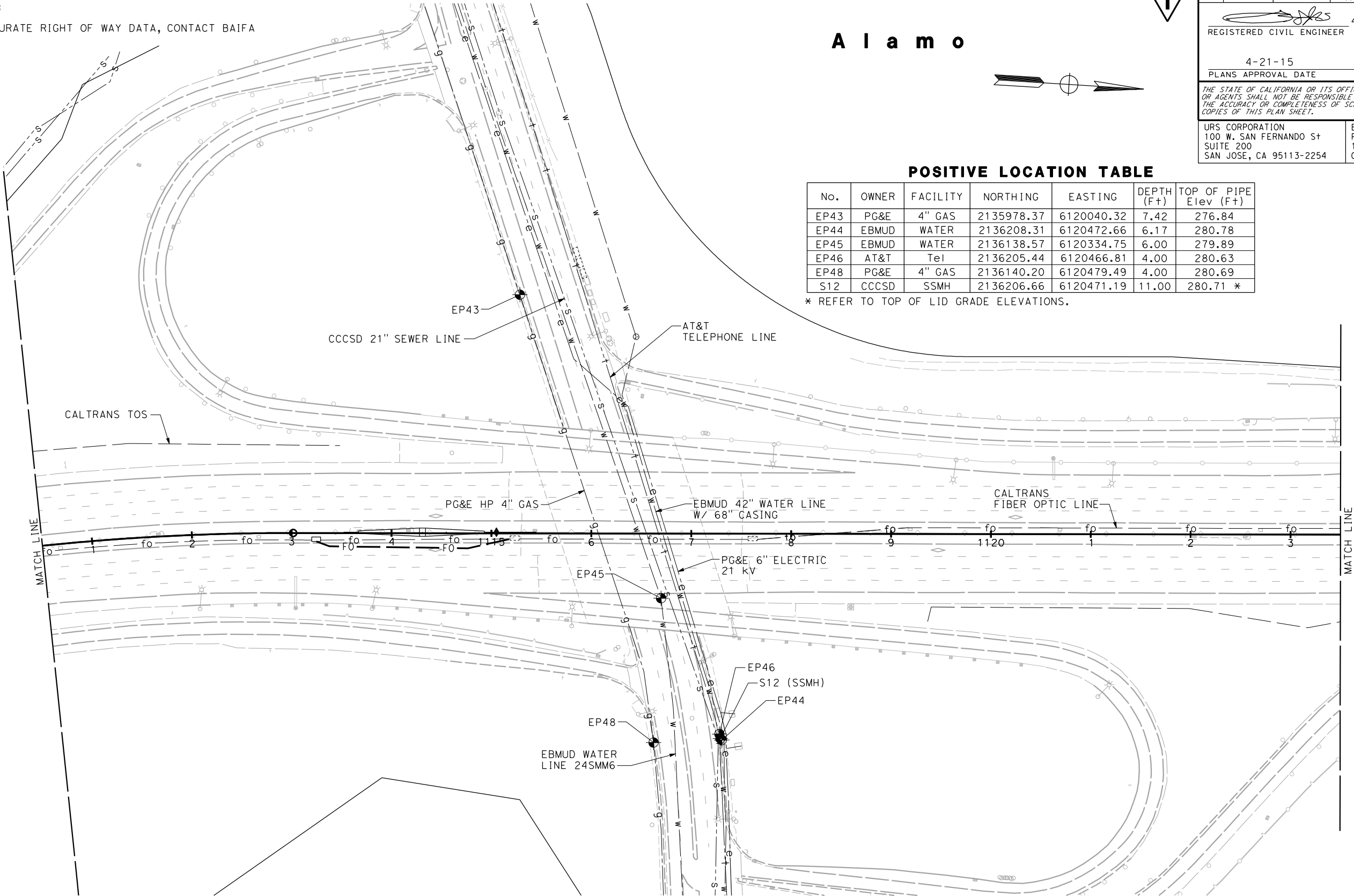
SANG KIM

KOUROSH LANGARI

REVISED BY

DATE REVISED

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



POSITIVE LOCATION TABLE						
No.	OWNER	FACILITY	NORTHING	EASTING	DEPTH (Ft)	TOP OF PIPE Elev (Ft)
EP43	PG&E	4" GAS	2135978.37	6120040.32	7.42	276.84
EP44	EBMUD	WATER	2136208.31	6120472.66	6.17	280.78
EP45	EBMUD	WATER	2136138.57	6120334.75	6.00	279.89
EP46	AT&T	Tel	2136205.44	6120466.81	4.00	280.63
EP48	PG&E	4" GAS	2136140.20	6120479.49	4.00	280.69
S12	CCCSD	SSMH	2136206.66	6120471.19	11.00	280.71 *

* REFER TO TOP OF LID GRADE ELEVATIONS.

Dist COUNTY ROUTE POST MILES TOTAL PROJECT SHEET No. TOTAL SHEETS

4 Alameda 680 R20.1/R21.9, R0.0/14.0 162 617

REGISTERED CIVIL ENGINEER 4-08-15 DATE

4-21-15 PLANS APPROVAL DATE

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URS CORPORATION 100 W. SAN FERNANDO St SUITE 200 SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH St, 3rd Floor OAKLAND, CA 94607

SANG KIM No. C66289 Exp. 06-30-16 CIVIL STATE OF CALIFORNIA

FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'


U-47

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	SANG KIM	REVISOR	DATE
RAMSEY HUSSEN	CALCULATED BY	SANG KIM	KOUROSH LANGARI	REVISOR	DATE

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	163	617


REGISTERED CIVIL ENGINEER

4-08-15
DATE

4-21-15
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER

SANG KIM

No. C66289

Exp. 06-30-16

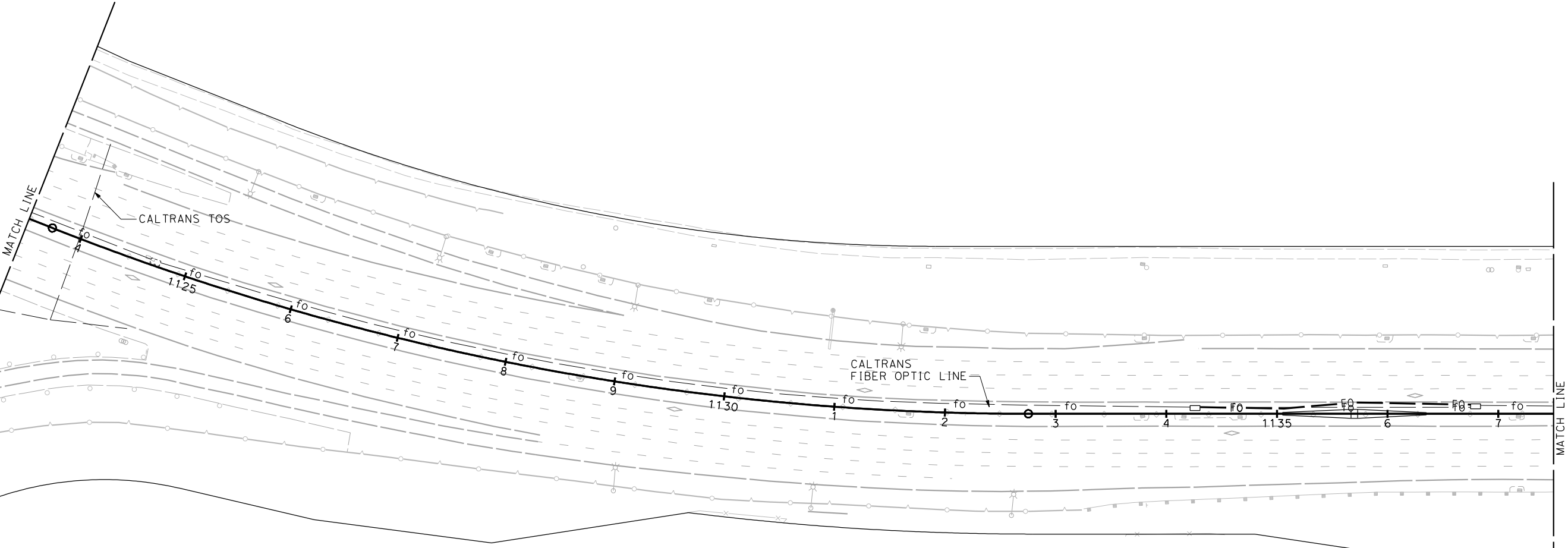
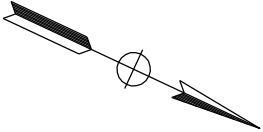
CIVIL

STATE OF CALIFORNIA

URS CORPORATION
100 W. SAN FERNANDO ST
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH ST, 3rd Floor
OAKLAND, CA 94607

A l a m o



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

UTILITY PLAN
SCALE: 1" = 50'

U-48

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-DESIGNED BY

CHECKED BY

SANG KIM

KOUROSH LANGARI

REVISED BY

DATE REVISED

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

A l a m o

POSITIVE LOCATION TABLE

No.	OWNER	FACILITY	NORTHING	EASTING	DEPTH (Ft)	TOP OF PIPE Elev (Ft)
EP49	EBMUD	WATER	2140506.37	6118497.66	3.33	258.43
EP50	PG&E	4" GAS	2140484.40	6118506.66	5.00	259.88
EP51	AT&T	TeI	2140512.23	6118486.77	2.00	257.98
S13	CCCSD	SSMH	2140576.48	6118680.88	14.58	273.02 *

* REFER TO TOP OF LID GRADE ELEVATIONS.

Dist

COUNTY

ROUTE

POST MILES
TOTAL PROJECT

SHEET
No.

TOTAL
SHEETS

4

Ala,CC

680

R20.1/R21.9,
R0.0/14.0

165

617

REGISTERED CIVIL ENGINEER

4-08-15

DATE

4-21-15

PLANS APPROVAL DATE

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URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

REGISTERED PROFESSIONAL ENGINEER

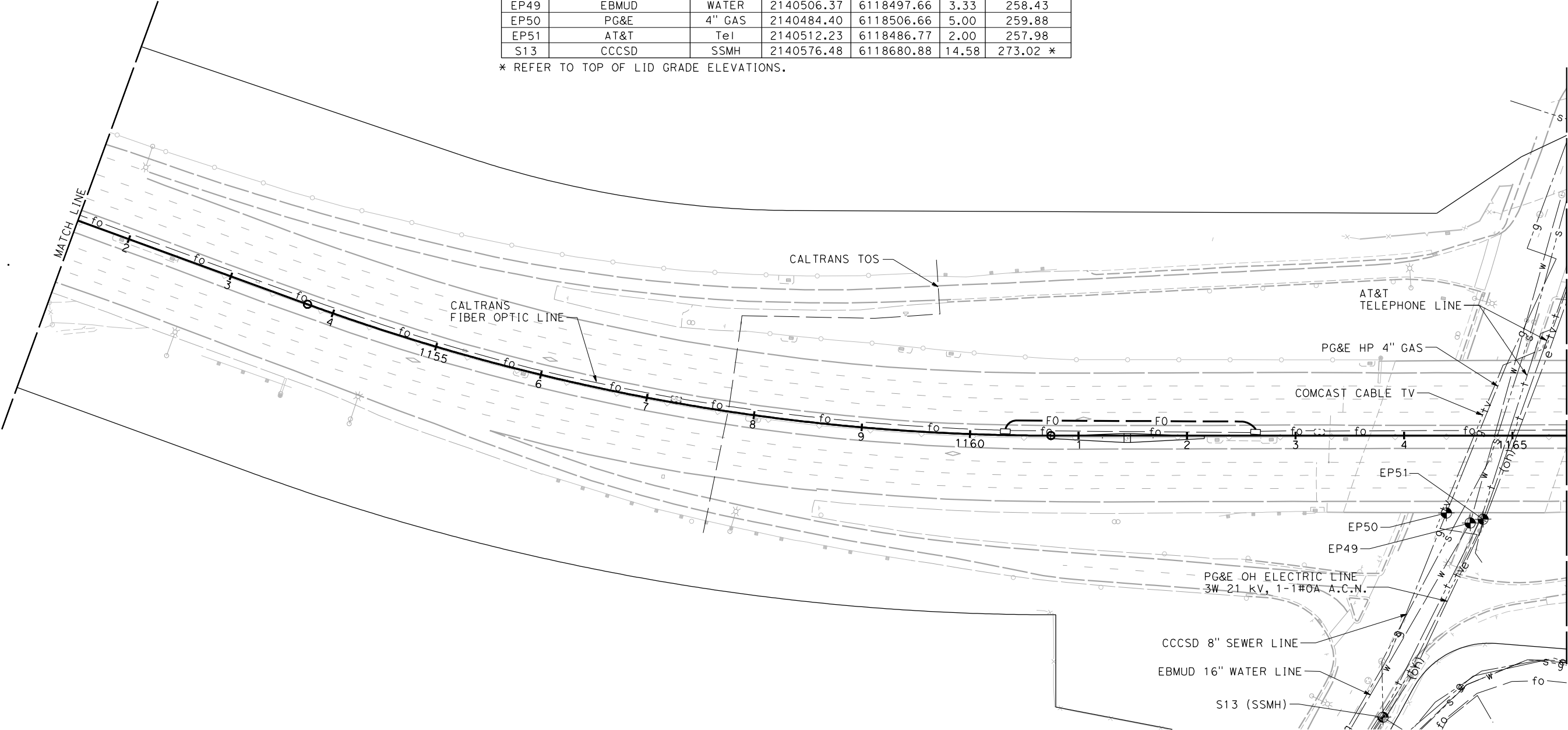
SANG KIM

No. C66289

Exp. 06-30-16

CIVIL

STATE OF CALIFORNIA



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1



REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

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UTILITY PLAN
SCALE: 1" = 50'


U-50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	SANG KIM	REVISOR	DATE
RAMSEY HUSSEN	CHECKED BY	KOUROSH LANGARI	DATE	REVISOR	DATE

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	166	617


REGISTERED CIVIL ENGINEER

4-08-15
DATE

4-21-15
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER

SANG KIM

No. C66289

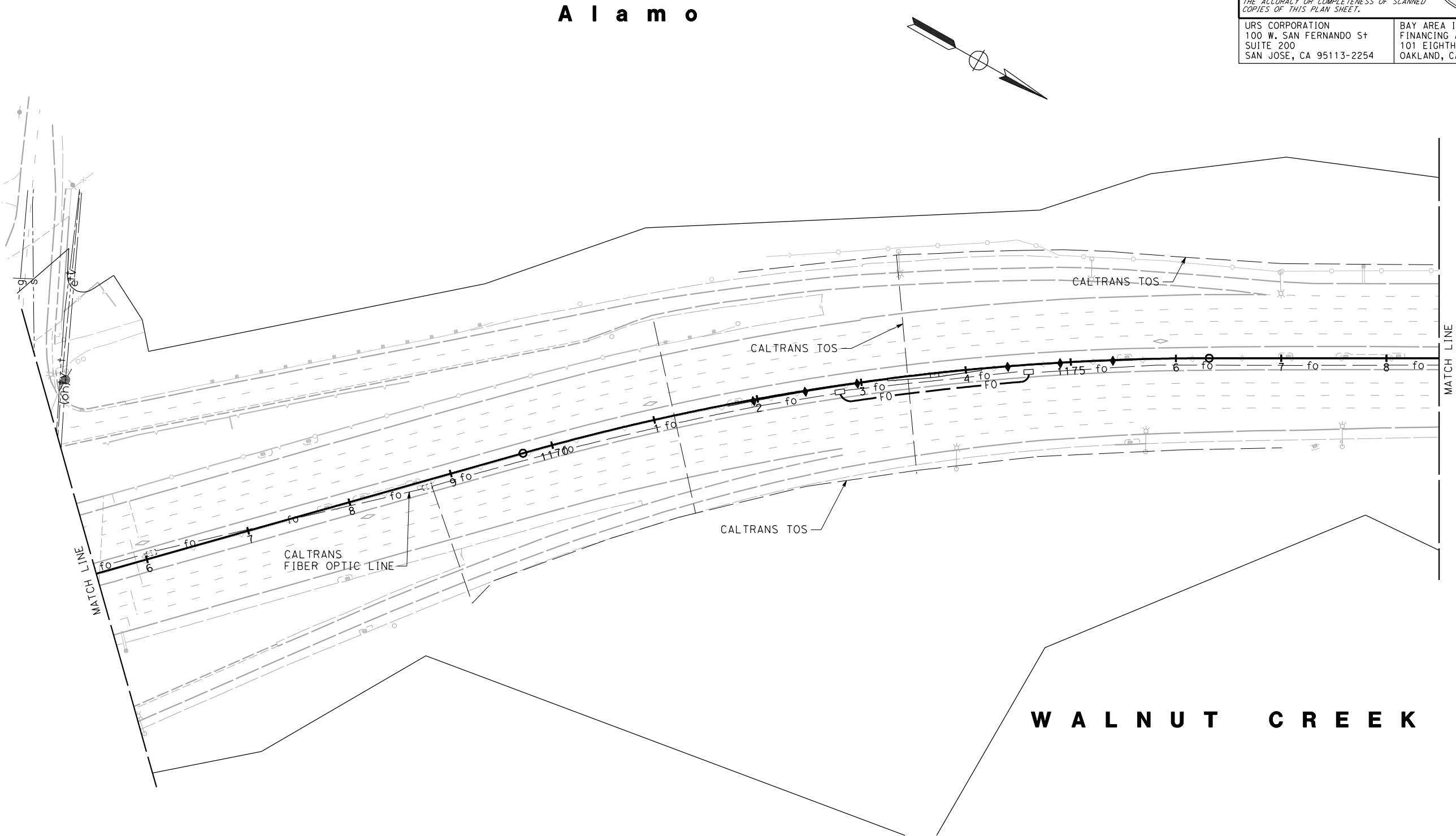
Exp. 06-30-16

CIVIL

STATE OF CALIFORNIA

URS CORPORATION
100 W. SAN FERNANDO ST
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE FINANCING AUTHORITY
101 EIGHTH ST, 3rd Floor
OAKLAND, CA 94607



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1

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REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

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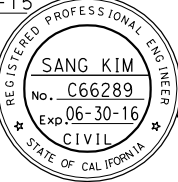
UTILITY PLAN
SCALE: 1" = 50'

U-51

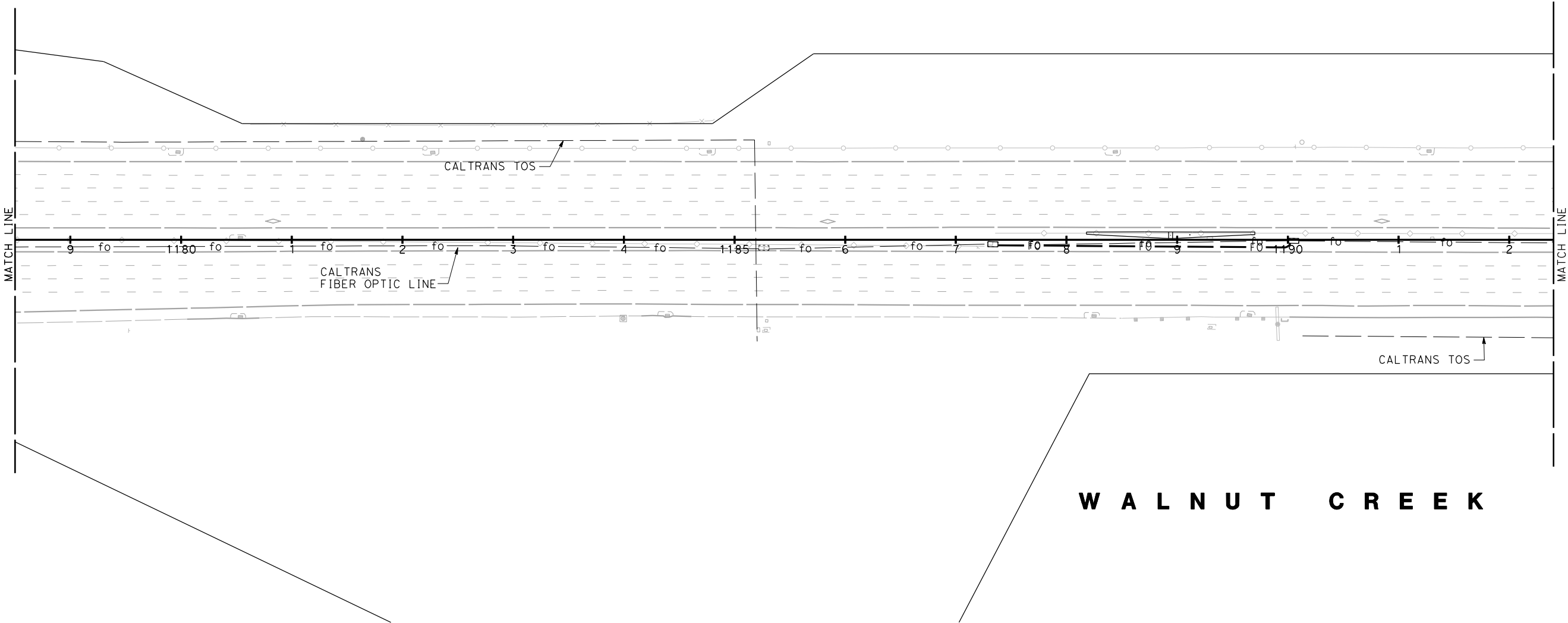
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED- DESIGNED BY	SANG KIM	REVISOR	DATE
RAMSEY HESSEN	CHECKED BY	KOUROSH LANGARI	REVISOR	DATE	

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS		
4	Alameda	680	R20.1/R21.9, R0.0/14.0	167	617		
 REGISTERED CIVIL ENGINEER			4-08-15 DATE				
4-21-15 PLANS APPROVAL DATE							
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URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607				

A l a m o



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-52

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-BY DESIGNED BY	SANG KIM	REVISOR BY DATE	KOUROSH LANGARI	DATE	REVISOR
RAMSEY HESSEN	CHECKED BY	SANG KIM	KOUROSH LANGARI	DATE	REVISOR	DATE	REVISOR

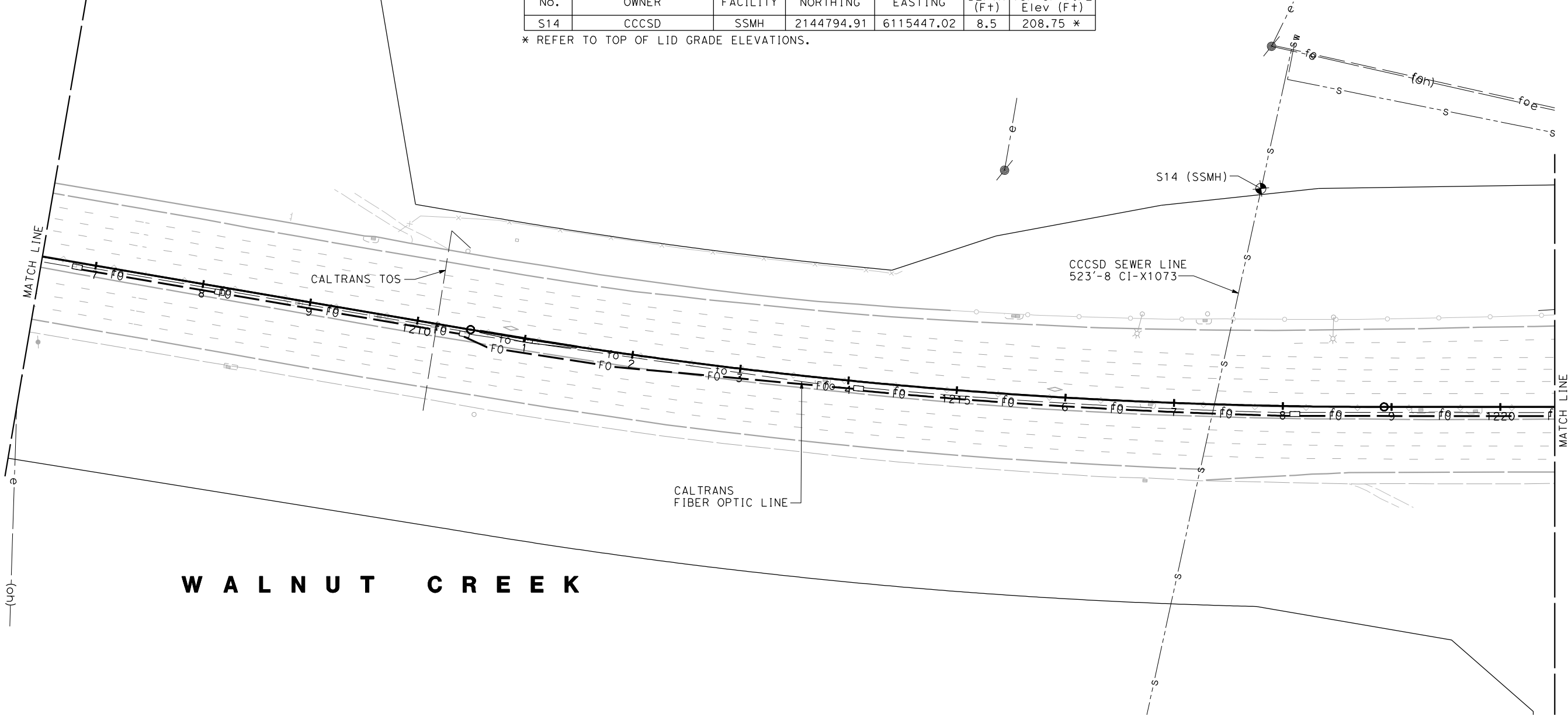
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

A l a m o

POSITIVE LOCATION TABLE

No.	OWNER	FACILITY	NORTHING	EASTING	DEPTH (Ft)	TOP OF PIPE Elev (Ft)
S14	CCCSD	SSMH	2144794.91	6115447.02	8.5	208.75 *

* REFER TO TOP OF LID GRADE ELEVATIONS.



FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1



REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-54


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	SANG KIM	REVISOR	DATE
RAMSEY HUSSEN	CHECKED BY	KOUROSH LANGARI	DATE	REVISOR	DATE

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA


A l a m o

1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	170	617

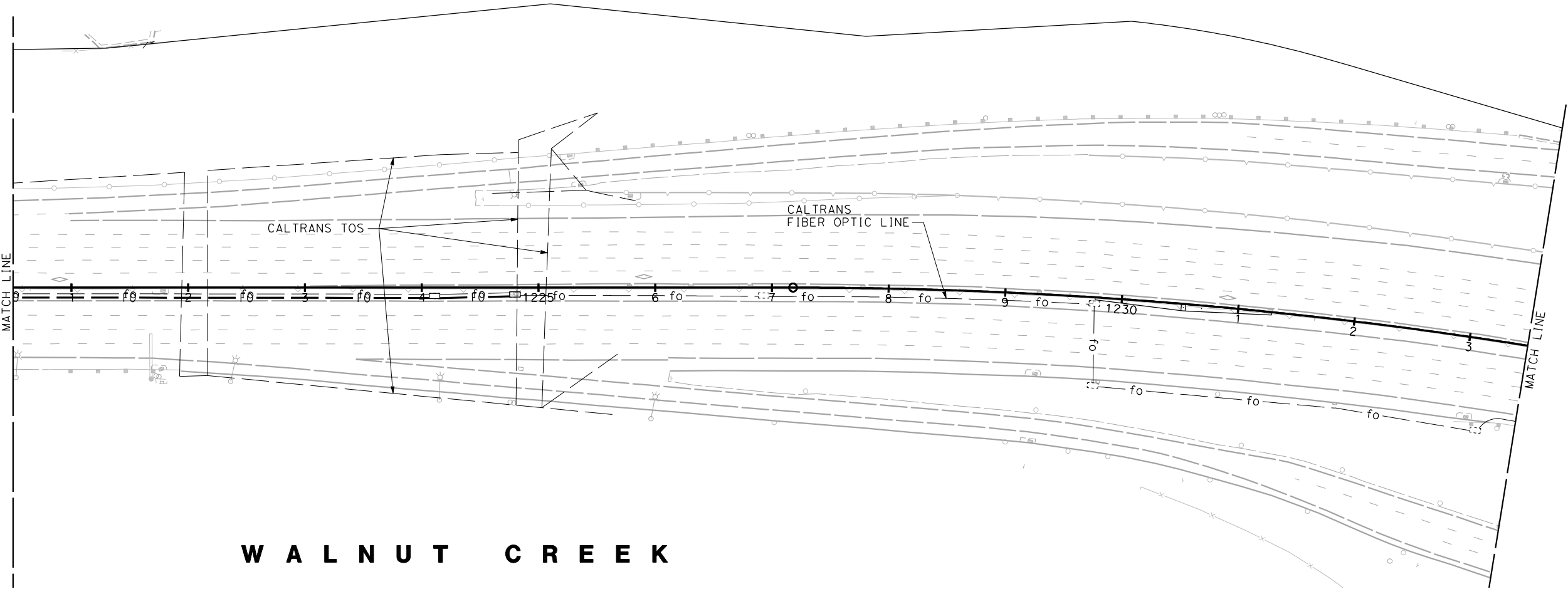

REGISTERED CIVIL ENGINEER
DATE 4-08-15

4-21-15
PLANS APPROVAL DATE



THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254	BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607
---	---



W A L N U T C R E E K

FOR NOTES, ABBREVIATIONS
AND LEGEND, SEE SHEET U-1

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-55

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS [N] (CONTINUED)						
SHEET No.	SIGN No.	SIGN CODE	PANEL SIZE	POST SIZE	ROADSIDE SIGN	REMARKS
			IN x IN	IN x IN	ONE POST	
TH-31	TH31-1	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH31-2	W21-5b (R+)	48 x 48	6 x 6	x	RIGHT SHOULDER CLOSED AHEAD
	TH31-3	W21-5b (R+)	48 x 48	6 x 6	x	RIGHT SHOULDER CLOSED AHEAD
	TH31-4	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
	TH31-5	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-32	TH32-1	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH32-2	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
TH-33	TH33-1	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH33-2	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-34	TH34-1	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-35	TH35-1	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
	TH35-2	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
	TH35-3	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-37	TH37-1	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-38	TH38-1	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
TH-39	TH39-1	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
	TH39-2	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-40	TH40-1	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-41	TH41-1	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
	TH41-2	C30A (CA)	48 x 48	6 x 6	x	SHOULDER CLOSED
TH-42	TH42-1	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
TH-43	TH43-1	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-44	TH44-1	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH44-2	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-46	TH46-1	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH46-2	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
	TH46-3	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
	TH46-4	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-47	TH47-1	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-48	TH48-1	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH48-2	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH48-3	C30A (CA)	48 x 48	6 x 6	x	SHOULDER CLOSED
TH-49	TH49-1	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-50	TH50-1	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
	TH50-2	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
	TH50-3	W21-5b (R+)	48 x 48			RIGHT SHOULDER CLOSED AHEAD
TH-51	TH51-1	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH51-2	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-52	TH52-1	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-53	TH53-1	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
	TH53-2	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
	TH53-3	W21-5b (R+)	48 x 48	6 x 6	x	RIGHT SHOULDER CLOSED AHEAD
TH-54	TH54-1	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH54-2	C30A (CA)	48 x 48	6 x 6	x	SHOULDER CLOSED
TH-57	TH57-1	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH57-2	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-58	TH58-1	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
	TH58-2	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-59	TH59-1	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
	TH59-2	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH59-3	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-60	TH60-1	C30A (CA)	48 x 48			SHOULDER CLOSED
TH-61	TH61-1	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH61-2	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH61-3	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
TH-62	TH62-1	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH62-2	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH62-3	R2-12	36 x 54			END WORK ZONE SPEED LIMIT
	TH62-4	R2-12	36 x 54			END WORK ZONE SPEED LIMIT
TH-63	TH63-1	R86-3 (CA)	36 x 66			LEFT LANE HOV 2+ ONLY, 5-9AM, 3-7PM, MON-FRI
TH-64	TH64-1	C30A (CA)	48 x 48	6 x 6	x	SHOULDER CLOSED
	TH64-2	C30A (CA)	48 x 48			SHOULDER CLOSED
	TH64-3	W24-1	48 x 48			DOUBLE REVERSE CURVE (1 LANE)
	TH64-4	W24-1cP	30 x 24			ALL LANES
	TH64-5	G20-5aP	36 x 24	6 x 6	x	WORK ZONE (PLAQUE)

[N] = NOTE FOR SEPARATE PAY ITEM, FOR INFORMATION ONLY

APPROVED FOR TRAFFIC HANDLING WORK ONLY



REVISED PER ADDENDUM No. 1
DATED MAY 18, 2015


STATIONARY MOUNTED CONSTRUCTION
AREA SIGNS [N] (CONTINUED)

SHEET No.	SIGN No.	SIGN CODE	PANEL SIZE	POST SIZE	ROADSIDE SIGN	REMARKS
			IN x IN	IN x IN	ONE POST	
TH-64	TH64-6	R2-1(55)	48 x 60	6 x 6	x	SPEED LIMIT
	TH64-7	W21-5b (R+)	48 x 48			RIGHT SHOULDER CLOSED AHEAD
	TH64-8	W21-5	48 x 48	6 x 6	x	SHOULDER WORK
	TH64-9	W21-5b (R+)	48 x 48	6 x 6	x	RIGHT SHOULDER CLOSED AHEAD
	TH64-10	W21-5b (L+)	48 x 48			LEFT SHOULDER CLOSED AHEAD
	TH64-11	W24-1	48 x 48			DOUBLE REVERSE CURVE (1 LANE)
	TH64-12	W24-1cP	30 x 24			ALL LANES
	TH64-13	W24-1	48 x 48			DOUBLE REVERSE CURVE (1 LANE)
	TH64-14	W24-1cP	30 x 24			ALL LANES
	TH64-15	W21-5	48 x 48			SHOULDER WORK
	TH64-16	W7-3aP (16 MILES)	24 x 18			NEXT 16 MILES
	TH64-17	G20-5aP	36 x 24			WORK ZONE (PLAQUE)
	TH64-18	R2-1(55)	48 x 60			SPEED LIMIT
	TH64-19	G20-5aP	36 x 24			WORK ZONE (PLAQUE)
	TH64-20	R2-1(55)	48 x 60			SPEED LIMIT
	TH64-21	W3-5 (55)	48 x 48			REDUCED SPEED LIMIT AHEAD (55)
	TH64-22	W3-5 (55)	48 x 48			REDUCED SPEED LIMIT AHEAD (55)
TH-66	TH66-1	W4-2 (R+)	48 x 48	6 x 6	x	(RIGHT) LANE ENDS
	TH66-2	C20 (CA)(R+)	48 x 48	6 x 6	x	(RIGHT) LANE CLOSED AHEAD
TH-67	TH67-1	W20-1	36 x 36	6 x 6	x	ROAD WORK AHEAD
	TH67-2	C20 (CA)(L+)	36 x 36	6 x 6	x	(LEFT) LANE CLOSED AHEAD
	TH67-3	C23 (CA)	36 x 36	6 x 6	x	RAMP WORK AHEAD
	TH67-4	C23 (CA)	36 x 36	6 x 6	x	RAMP WORK AHEAD
	TH67-5	W4-2 (L+)	36 x 36	6 x 6	x	(LEFT) LANE ENDS
	TH67-6	SC11 (CA)	42 x 30	6 x 6	x	LANE CLOSED
TH-68	TH68-1	W20-1	36 x 36	6 x 6	x	ROAD WORK AHEAD
	TH68-2	C20 (CA)(R+)	36 x 36	6 x 6	x	(RIGHT) LANE CLOSED AHEAD
	TH68-3	C23 (CA)	36 x 36	6 x 6	x	RAMP WORK AHEAD
	TH68-4	C23 (CA)	36 x 36	6 x 6	x	RAMP WORK AHEAD
	TH68-5	W4-2 (R+)	36 x 36	6 x 6	x	(RIGHT) LANE ENDS
	TH68-6	SC11 (CA)	42 x 30	6 x 6	x	LANE CLOSED
TH-69	TH69-1	R9-11 (R+)	24 x 18	6 x 6	x	SIDEWALK CLOSED AHEAD CROSS HERE
	TH69-2	R9-9	24 x 12	6 x 6	x	SIDEWALK CLOSED
	TH69-3	R9-9	24 x 12	6 x 6	x	SIDEWALK CLOSED
	TH69-4	R9-11 (L+)	24 x 18	6 x 6	x	SIDEWALK CLOSED AHEAD CROSS HERE
	TH69-5	CUSTOM	24 x 12	6 x 6	x	BUS STOP OPEN
TH-70	TH70-1	R9-9	24 x 12	6 x 6	x	SIDEWALK CLOSED
	TH70-2	R9-9	24 x 12	6 x 6	x	SIDEWALK CLOSED
	TH70-3	W11-1	30 x 30	6 x 6	x	BICYCLE
	TH70-4	W16-1P	18 x 24	6 x 6	x	SHARE THE ROAD
	TH70-5	W20-1	36 x 36	6 x 6	x	ROAD WORK AHEAD
TH-71	TH71-1	W20-1	36 x 36	6 x 6	x	ROAD WORK AHEAD
	TH71-2	W23-2	36 x 36	6 x 6	x	NEW TRAFFIC PATTERN AHEAD
	TH71-3	W20-1	36 x 36	6 x 6	x	ROAD WORK AHEAD
TH-72	TH72-1	W20-1	36 x 36	6 x 6	x	ROAD WORK AHEAD
	TH72-2	W20-4	36 x 36	6 x 6	x	ONE LANE ROAD
	TH72-3	C9A (CA)	36 x 36	6 x 6	x	FLAGGER
TH-72	TH72-4	C9A (CA)	36 x 36	6 x 6	x	FLAGGER
	SHEET TOTAL OF THQ-3				44	

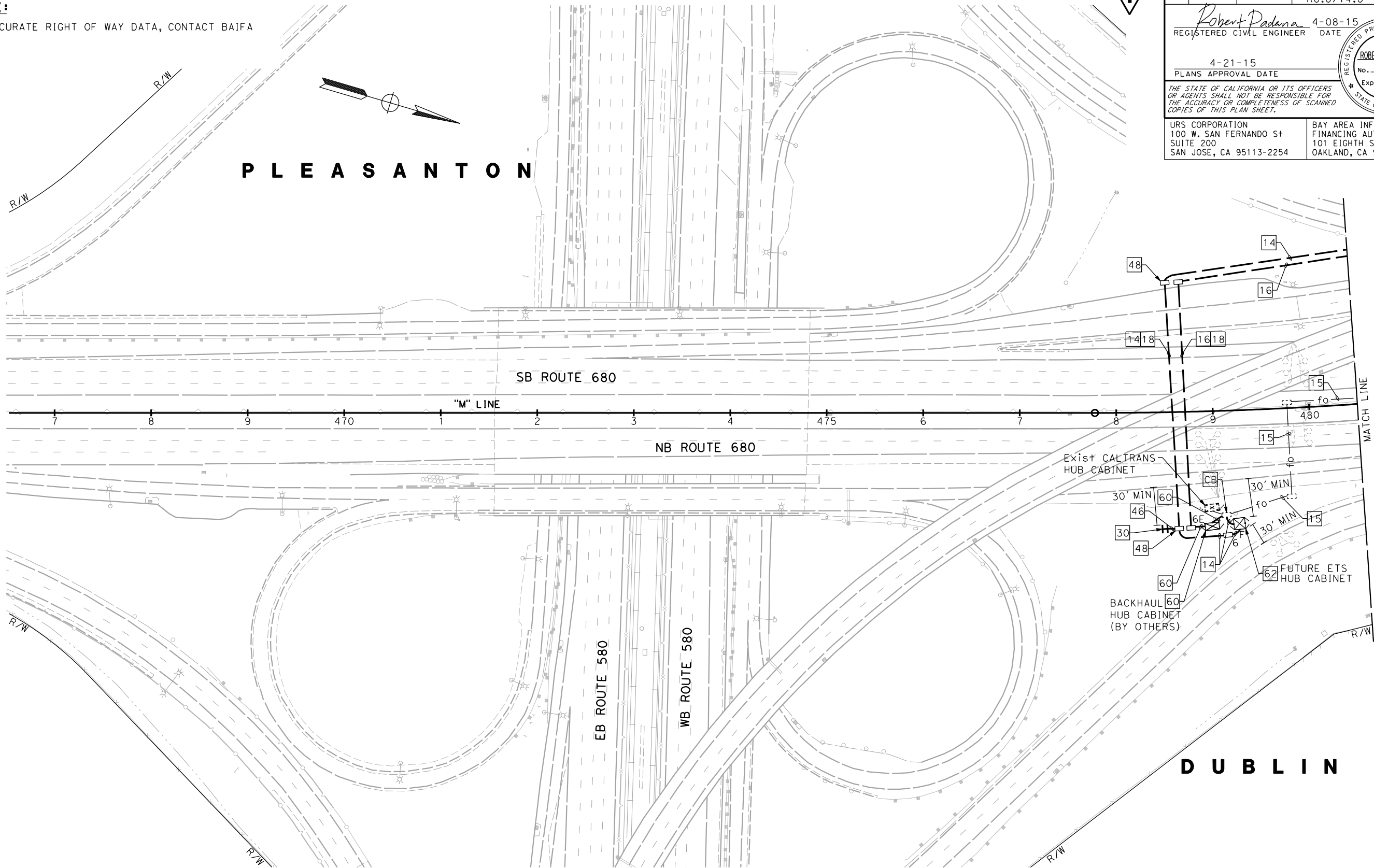
[N] = NOTE FOR SEPARATE PAY ITEM,
FOR INFORMATION ONLY

TRAFFIC HANDLING QUANTITIES

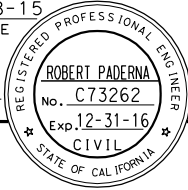
THQ-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION 	CONSULTANT FUNCTIONAL SUPERVISOR RAMSEY HISSEN	CALCULATED-DESIGNED BY CHECKED BY	SPENCER LEE ROBERT PADERNA	REVISED BY DATE REVISED	x x x x

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS		
4	Alameda	680	R20.1/R21.9, R0.0/14.0	495	617		
<i>Robert Paderna</i> REGISTERED CIVIL ENGINEER			4-08-15 DATE				
4-21-15 PLANS APPROVAL DATE							
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.							
URS CORPORATION 100 W. SAN FERNANDO St SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH St, 3rd Floor OAKLAND, CA 94607				

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

E-34

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	BY	DATE	REVISION
ST-Gilberts	CONSULTANT FUNCTIONAL SUPERVISOR	DESIGNED BY	CHECKED BY	REVISION
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	BY	DATE	REVISION
ST-Gilberts	CONSULTANT FUNCTIONAL SUPERVISOR	DESIGNED BY	CHECKED BY	REVISION

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

Exist PG&E UNDERGROUND SERVICE (120/240 V)

- 21 TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. B02031
SEE TYPICAL SERVICE WIRING DIAGRAM ON SHEET E-96.
PROVIDE ITEM NO. ① THRU ⑨, 2-⑤, AND ⑦.
FRONT DOOR SHALL FACE NORTH.
PROPOSED LOAD:
1 - 9600 W BACKHAUL HUB CABINET (BY OTHERS)
1 - 6300 W ETS HUB CABINET (BY OTHERS)
1 - 200 W CCTV (BY OTHERS)

AMADOR PLAZA Rd

DUBLIN

DUBLIN Blvd

Exist PG&E UNDERGROUND SERVICE (120/240 V)

CBSC BY PG&E

SB ROUTE 680

NB ROUTE 680

SIGN No. OS1-1

- 2122 TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. B02042
SEE TYPICAL SERVICE WIRING DIAGRAM ON SHEET E-96.
PROVIDE ITEM NO. ① THRU ⑭, AND ⑯.
FRONT DOOR SHALL FACE SOUTH.
PROPOSED LOAD:
1 - 1450 W VTMS (BY OTHERS)
1 - 185 W LED LUM

25 SEE LIGHTING (BAIFA), SHEET E-3

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 AND E-2



1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

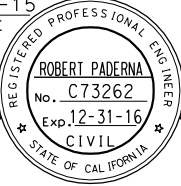
E-35

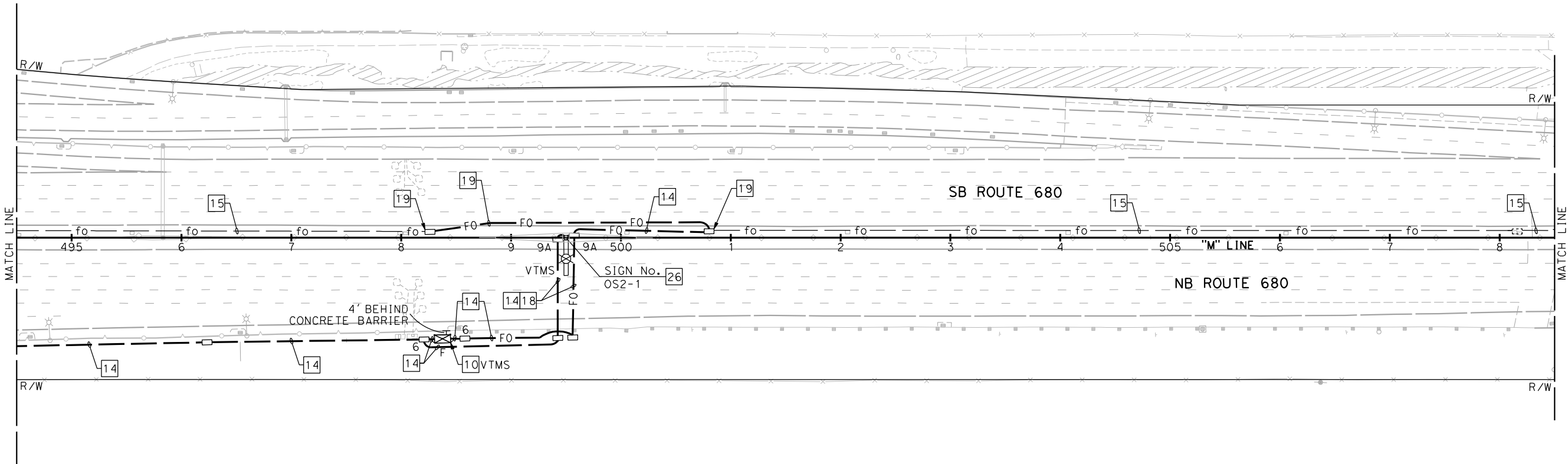
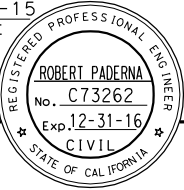
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	SPENCER LEE	REVISOR	DATE
ETC	RAMSEY HESSEN	CHECKED BY	DESIGNED BY	ROBERT PADERNA	REVISOR	DATE

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

1

D U B L I N

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	497	617
Robert Paderna			4-08-15		
REGISTERED CIVIL ENGINEER			DATE		
4-21-15			PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 AND E-2

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

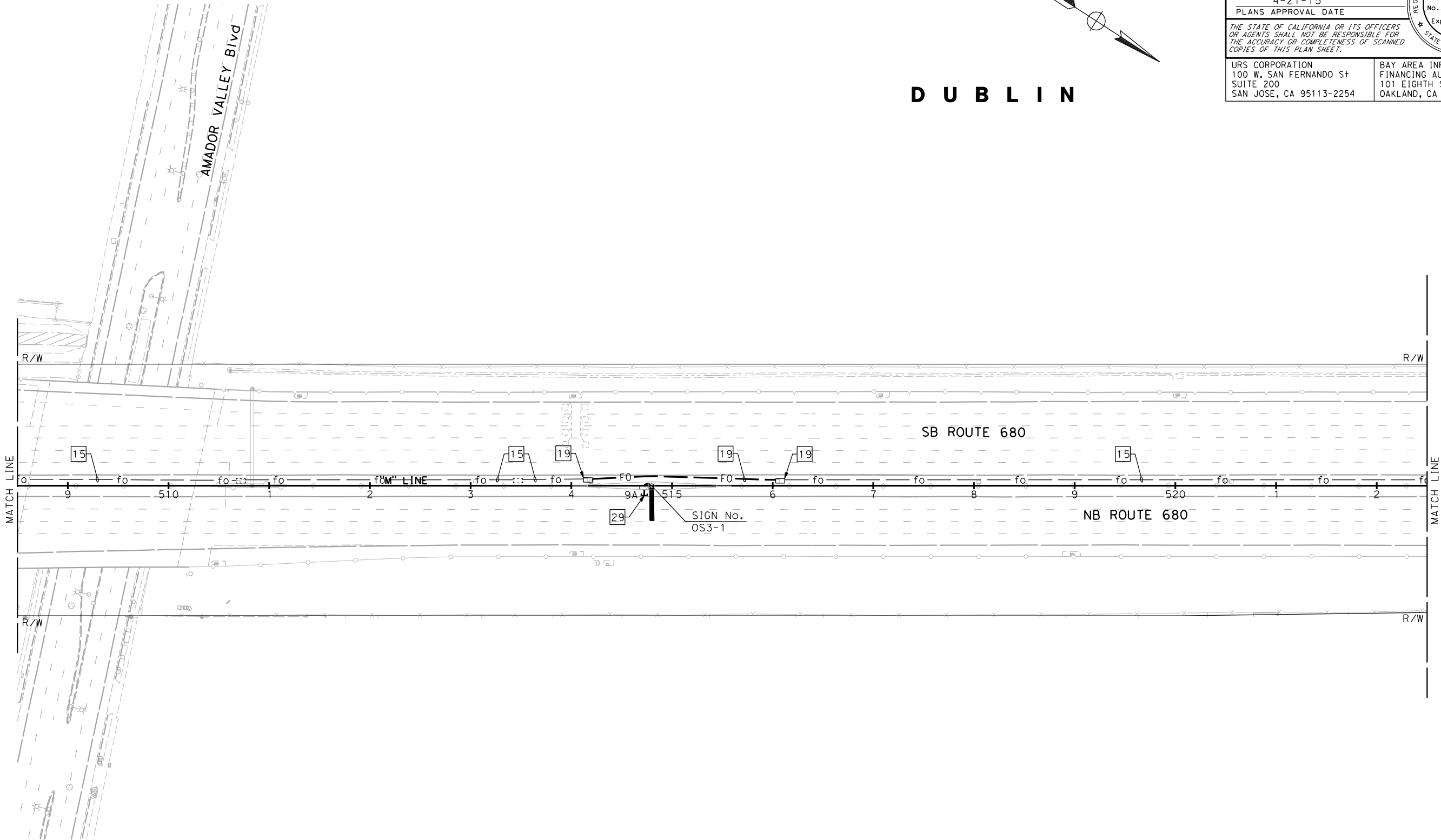
ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

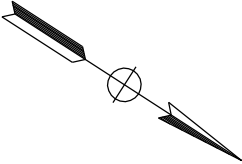
E-36

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	REVISOR	DATE
RAMSEY HESSEN	SPENCER LEE	ROBERT PADARNA	REVISOR	DATE	

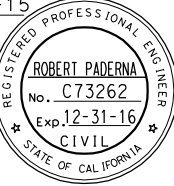
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

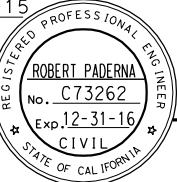


1



DUBLIN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	498	617
Robert Paderna			4-08-15		
REGISTERED CIVIL ENGINEER			DATE		
4-21-15			PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 AND E-2

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRONIC TOLL SYSTEM

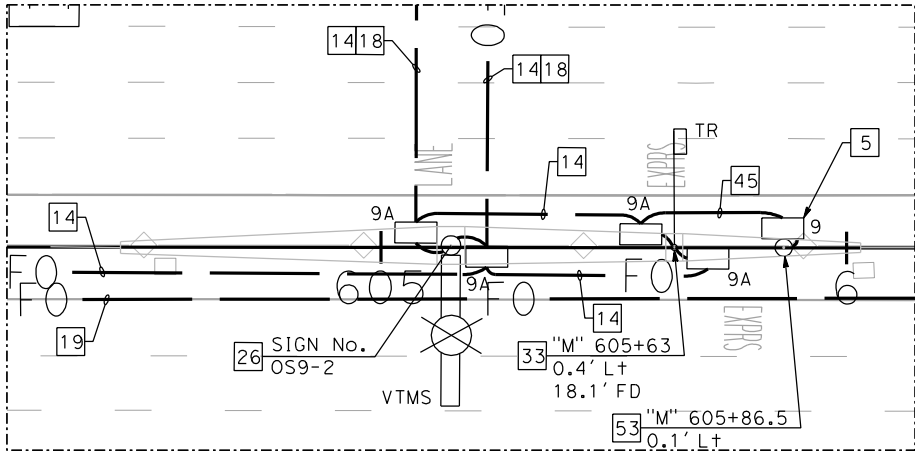
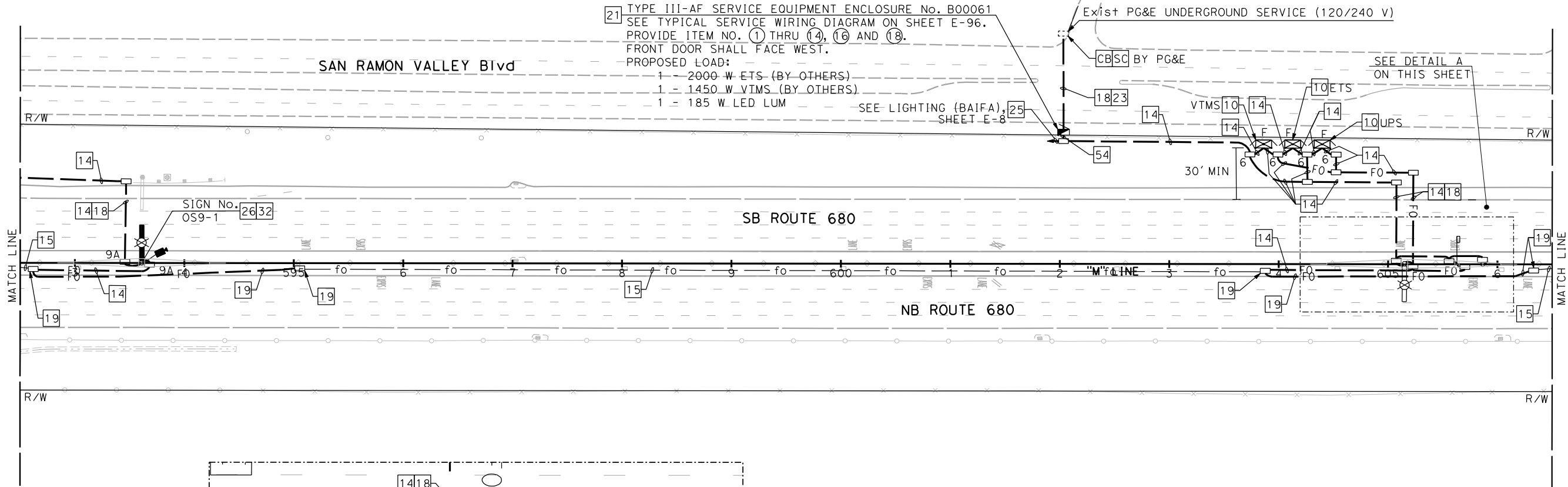
SCALE: 1" = 50'

E-37



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	REVISOR	DATE
RAMSEY HISSIN	SPENCER LEE	ROBERT PADARNA	REVISED BY	DATE	REVISED

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



DETAIL A
SCALE: 1" = 20'



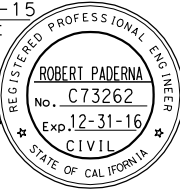
REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

E-43

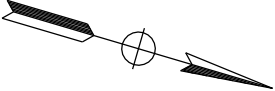
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
4	Ala, CC	680	R20.1/R21.9, R0.0/14.0	504	617
Robert Paderna			4-08-15	DATE	
REGISTERED CIVIL ENGINEER			4-21-15	PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 AND E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	REVISOR	DATE
RAMSEY HISSON	SPENCER LEE	ROBERT PADERNA	REVISOR	DATE	REVISOR

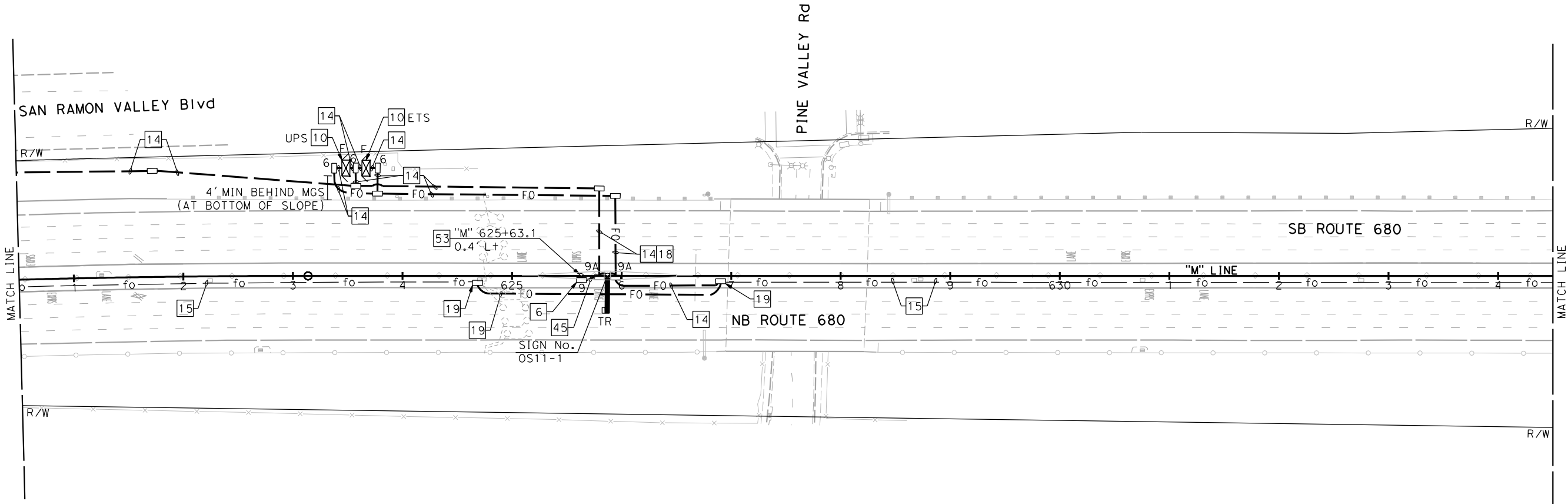
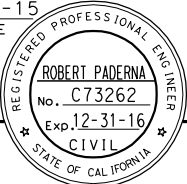
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

1



SAN RAMON

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
4	Ala,CC	680	R20.1/R21.9, R0.0/14.0	506	617
Robert Paderna			4-08-15	DATE	
REGISTERED CIVIL ENGINEER			4-21-15	PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 AND E-2

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

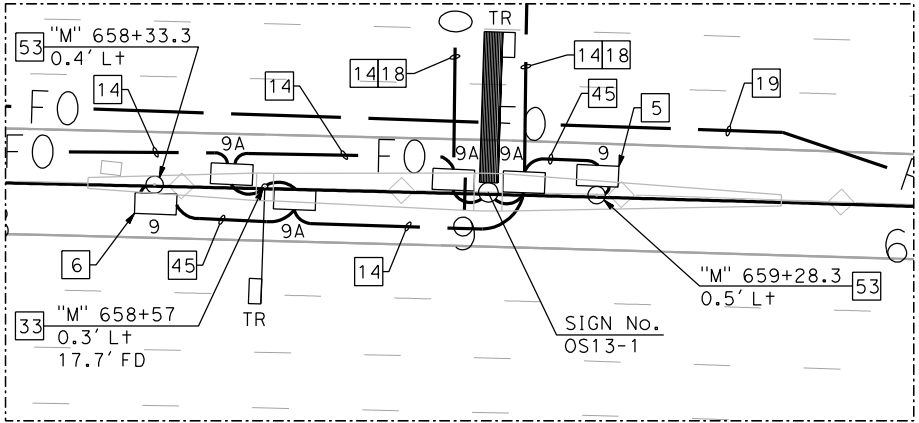
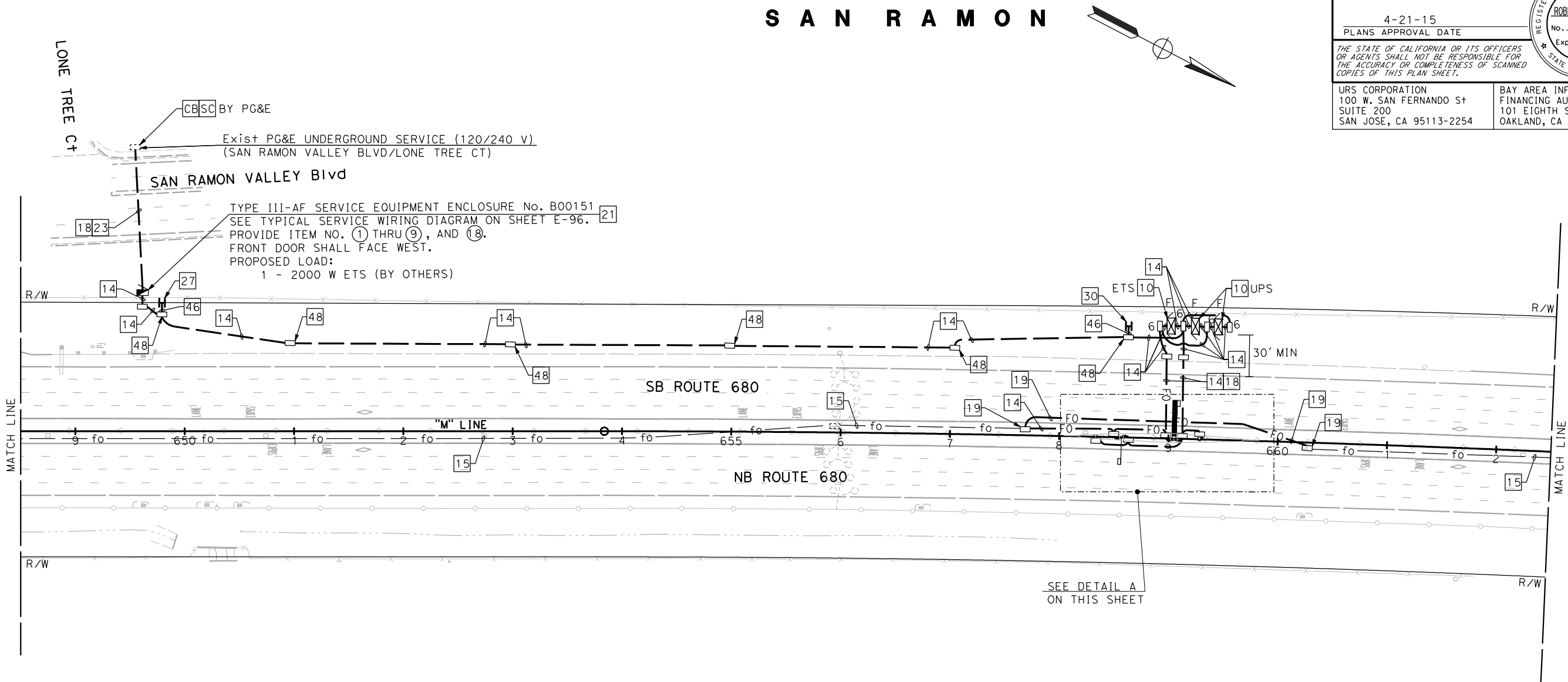
ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

E-45

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	SPENCER LEE	REVISED BY	
ET-Giltrans®	RAMSEY HISSEN	CHECKED BY	ROBERT PADERNA	DATE REVISED	

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



DETAIL A
SCALE: 1" = 20'



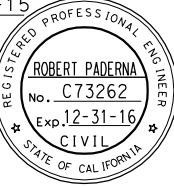
REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

E-47

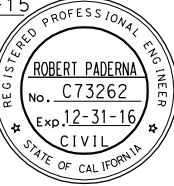
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala,CC	680	R20.1/R21.9, R0.0/14.0	508	617
Robert Paderna			4-08-15	DATE	
REGISTERED CIVIL ENGINEER			4-21-15	PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
URS CORPORATION 100 W. SAN FERNANDO St SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH St, 3rd Floor OAKLAND, CA 94607		

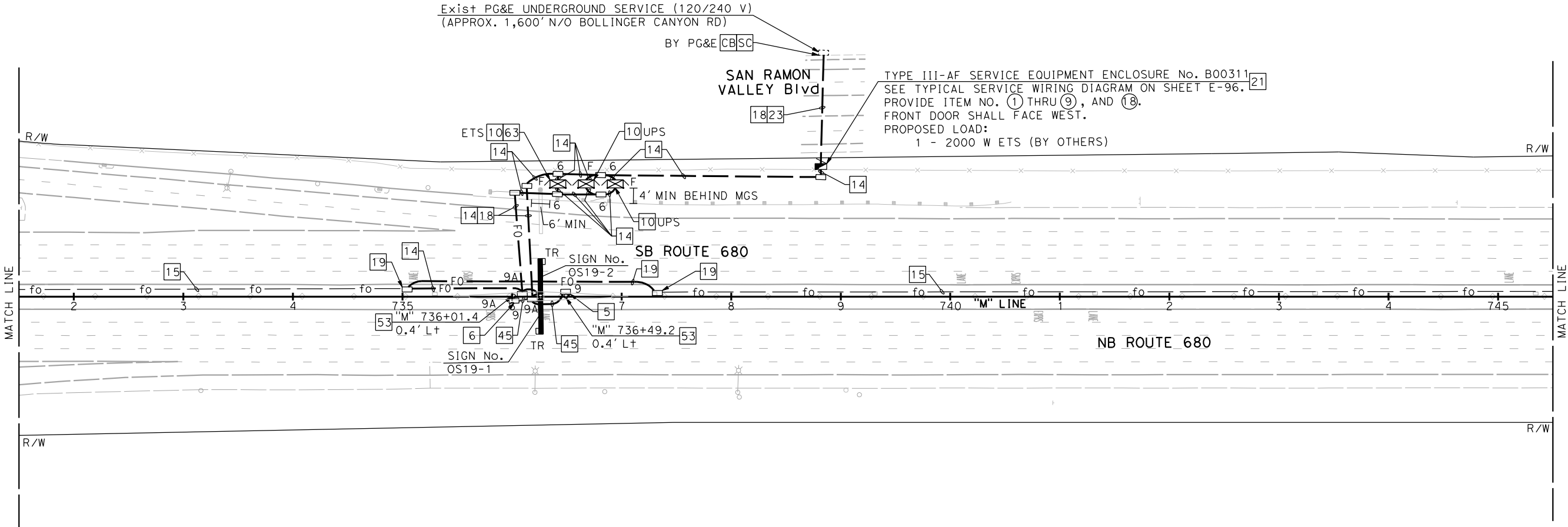
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x						
x						
x						
x						

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

1

SAN RAMON

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	514	617
Robert Paderna			4-08-15		
REGISTERED CIVIL ENGINEER			DATE		
4-21-15			PLANS APPROVAL DATE		
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URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 AND E-2

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

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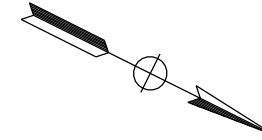
ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

E-53

FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

S A N R A M O N

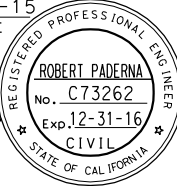


Dist	COUNTY	ROUTE	TOTAL MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala, CC	680	R20.1/R21.9, R0.0/14.0	515	617

Robert Paderna
REGISTERED CIVIL ENGINEER

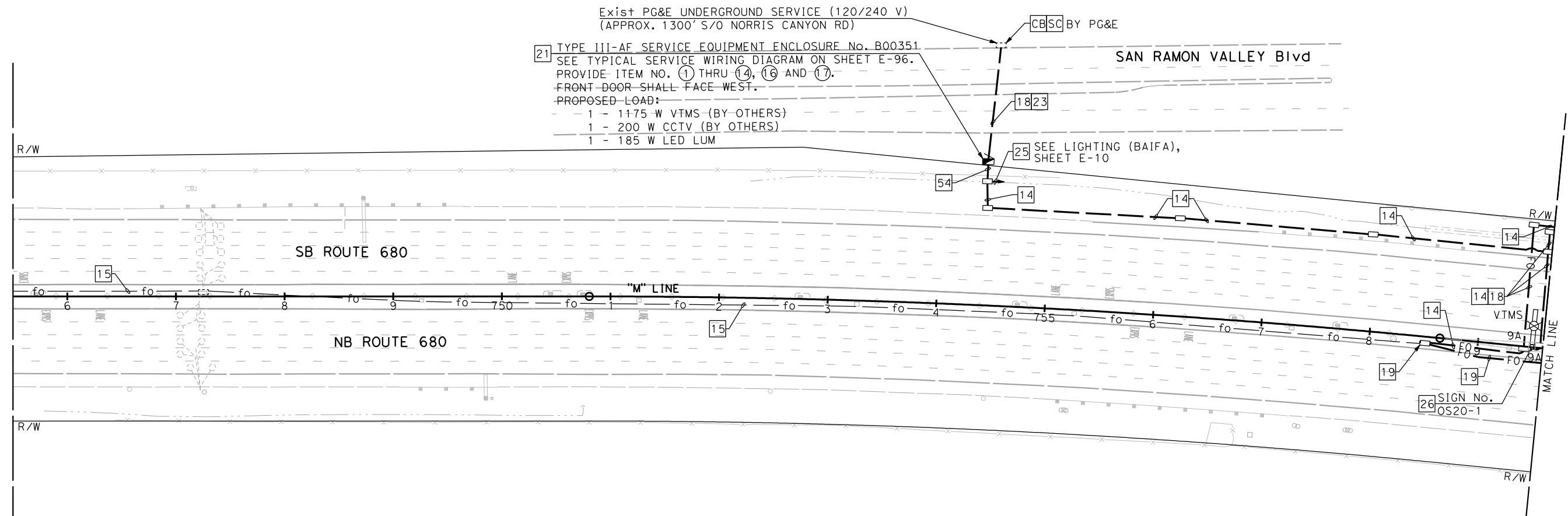
4-08-15
DATE

4-21-15
PLANS APPROVAL DATE



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OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.

<p>URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254</p>	<p>BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607</p>
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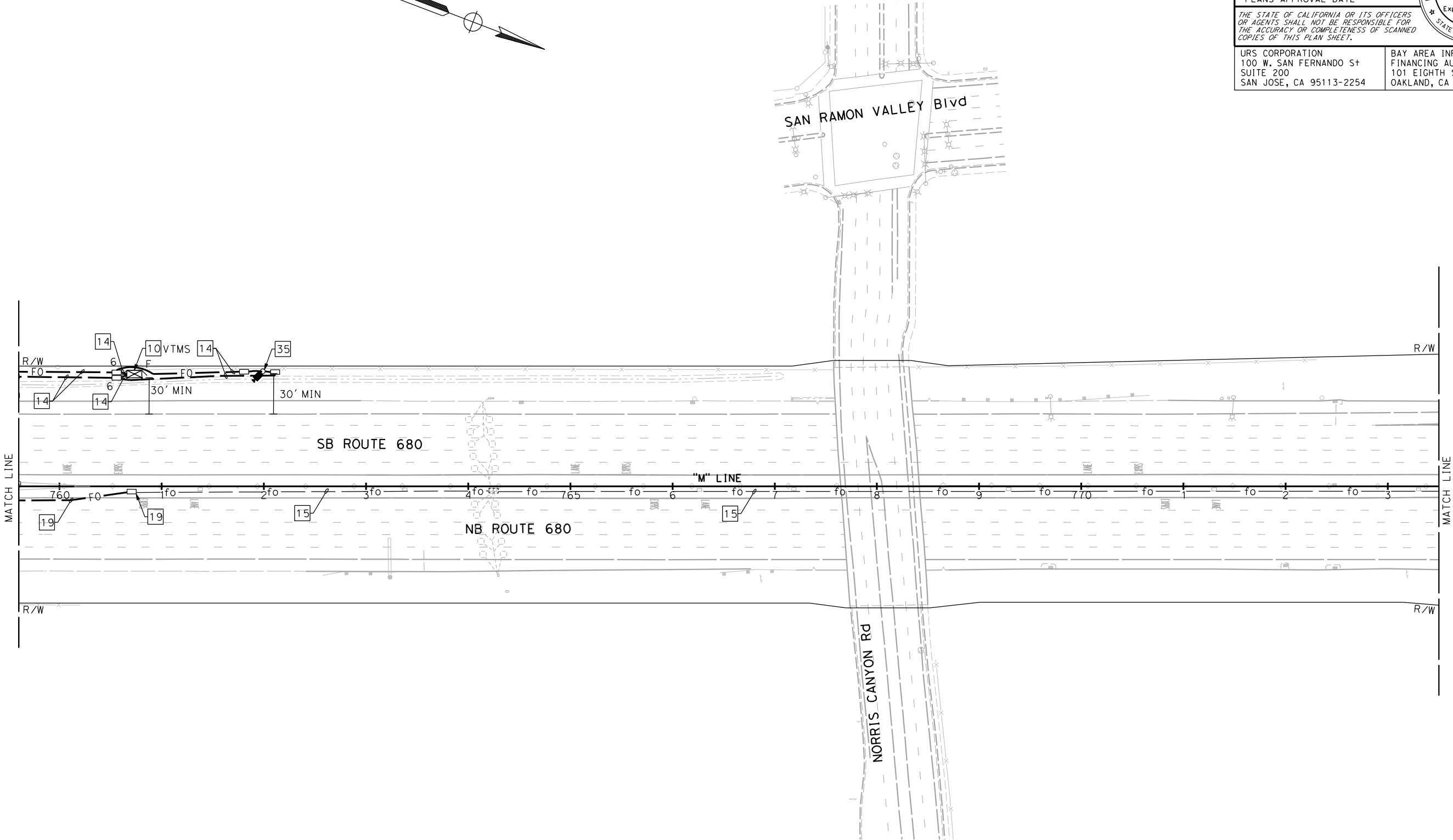
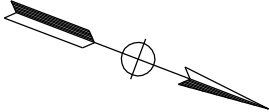
APPROVED FOR ELECTRICAL WORK ONLY

E-54

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	REVISOR	DATE
ETG	RAMSEY HESSEN	SPENCER LEE	ROBERT PADARNA	REVISOR	DATE

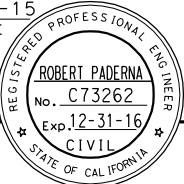
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

SAN RAMON



1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	516	617
Robert Paderna			4-08-15	DATE	
REGISTERED CIVIL ENGINEER			4-21-15	PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

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ELECTRONIC TOLL SYSTEM

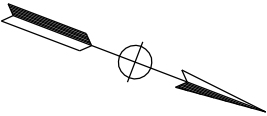
SCALE: 1" = 50'

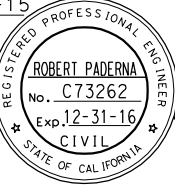
E-55

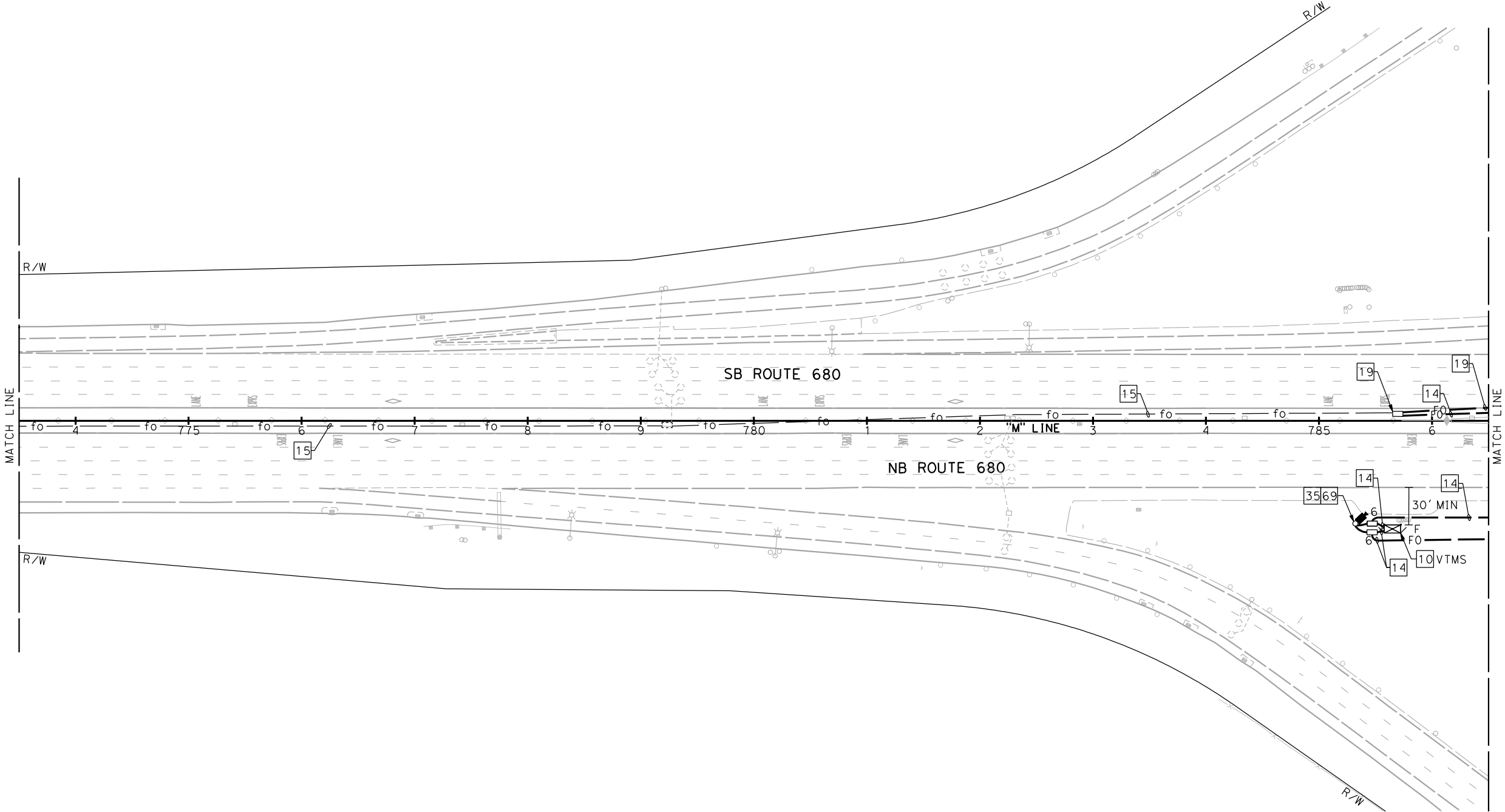
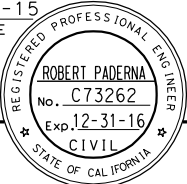
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR	DATE

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

S A N R A M O N



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala,CC	680	R20.1/R21.9, R0.0/14.0	517	617
<i>Robert Paderna</i> REGISTERED CIVIL ENGINEER			4-08-15 DATE		
4-21-15					
PLANS APPROVAL DATE					
<i>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</i>					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 AND E-2



REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

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ELECTRONIC TOLL SYSTEM

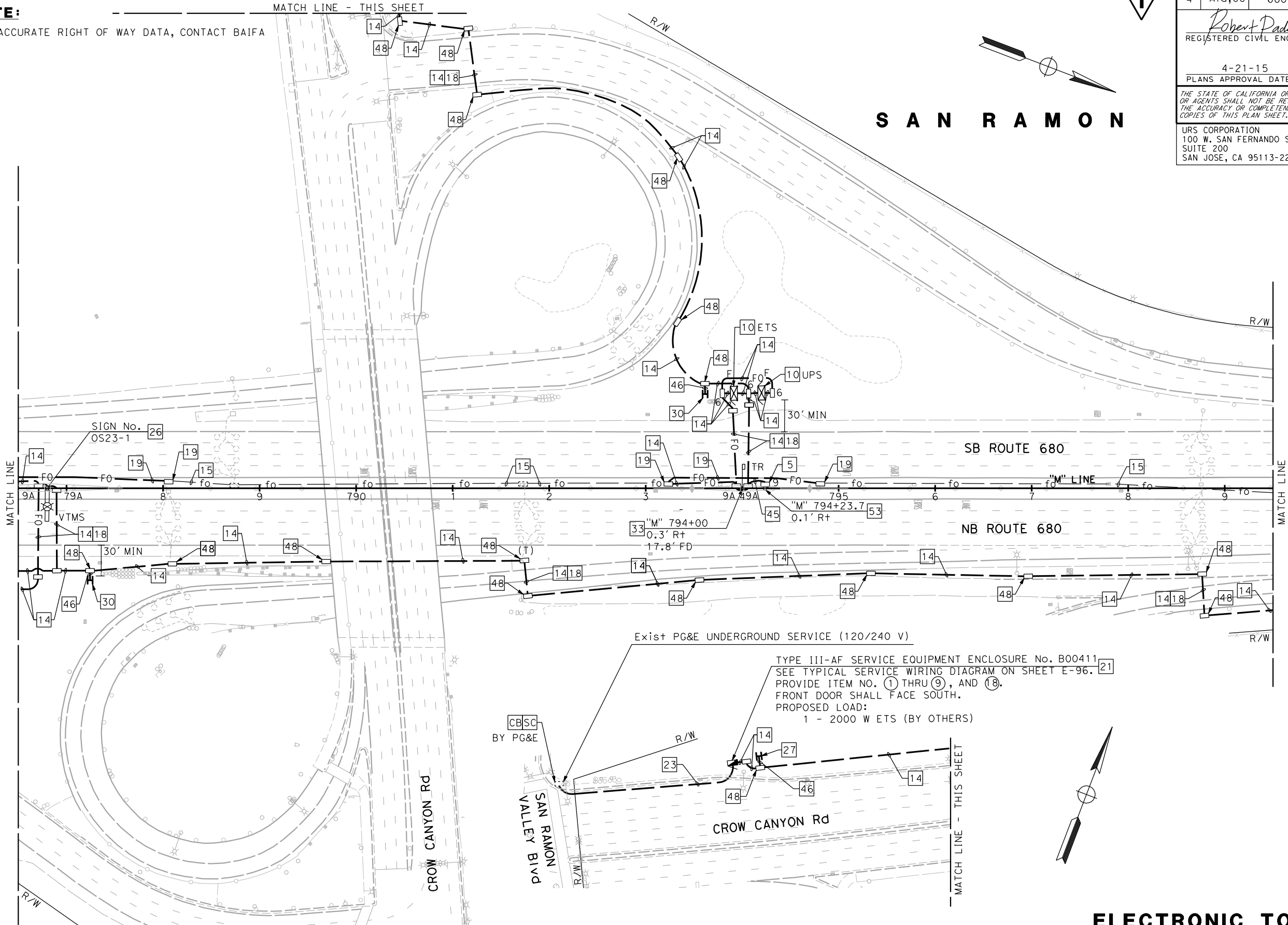
SCALE: 1" = 50'

E-56

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
ELECTRONIC TOLL SYSTEM	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR	DATE

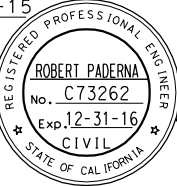
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



1

SAN RAMON

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	518	617
Robert Paderna			4-08-15	DATE	
REGISTERED CIVIL ENGINEER			4-21-15	PLANS APPROVAL DATE	
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URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 AND E-2

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

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ELECTRONIC TOLL SYSTEM

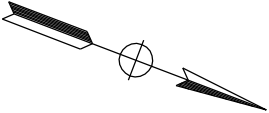
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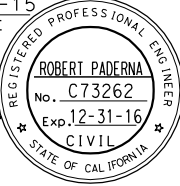
E-57

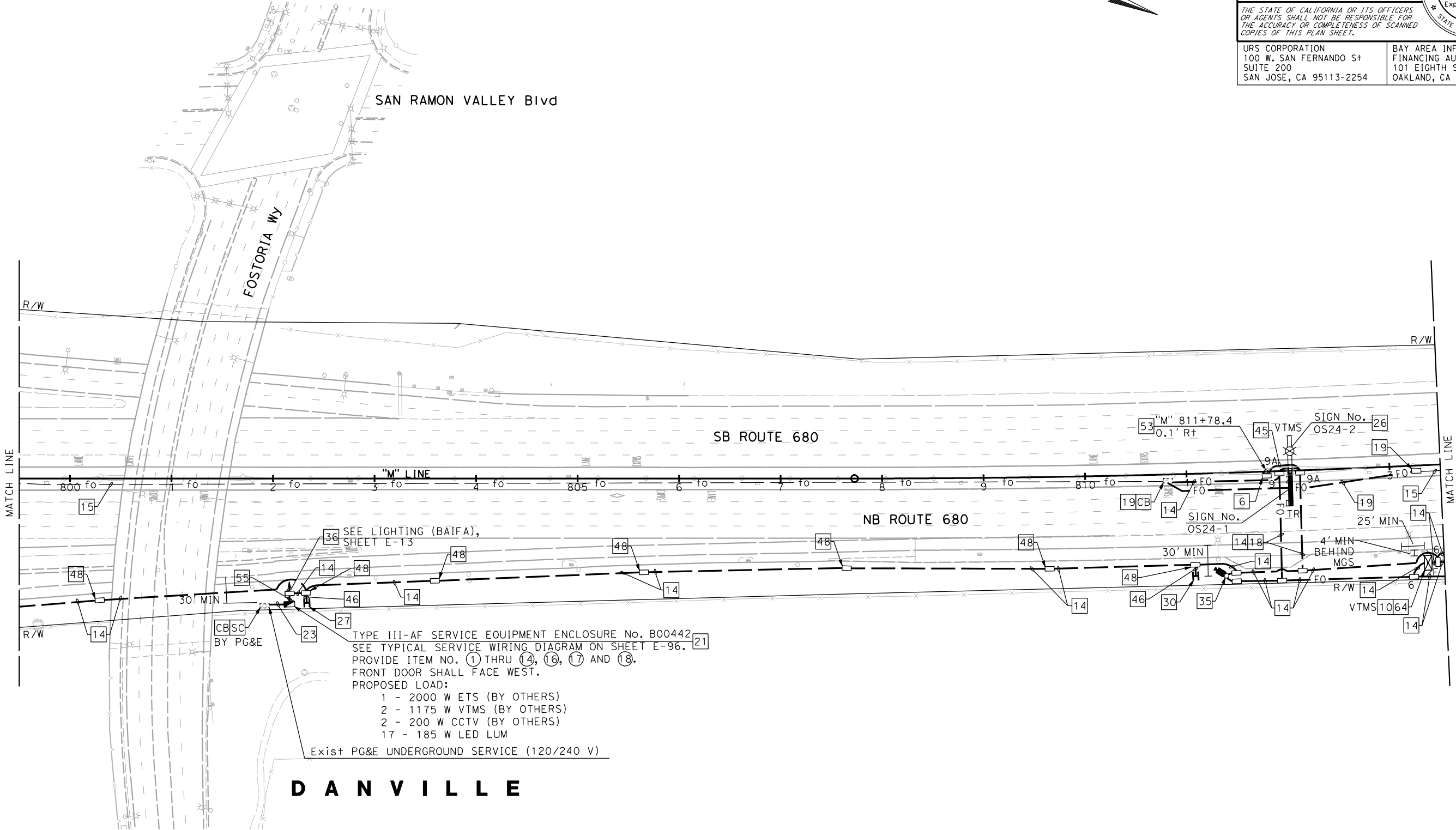
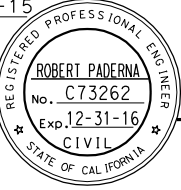
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	REVISOR	DATE
RAMSEY HESSEN	SPENCER LEE	ROBERT PADARNA	DATE	REVISOR	DATE

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

SAN RAMON



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	519	617
Robert Paderna			4-08-15		
REGISTERED CIVIL ENGINEER			DATE		
4-21-15			PLANS APPROVAL DATE		
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URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

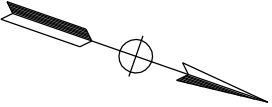
E-58

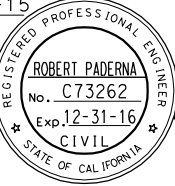
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 AND E-2

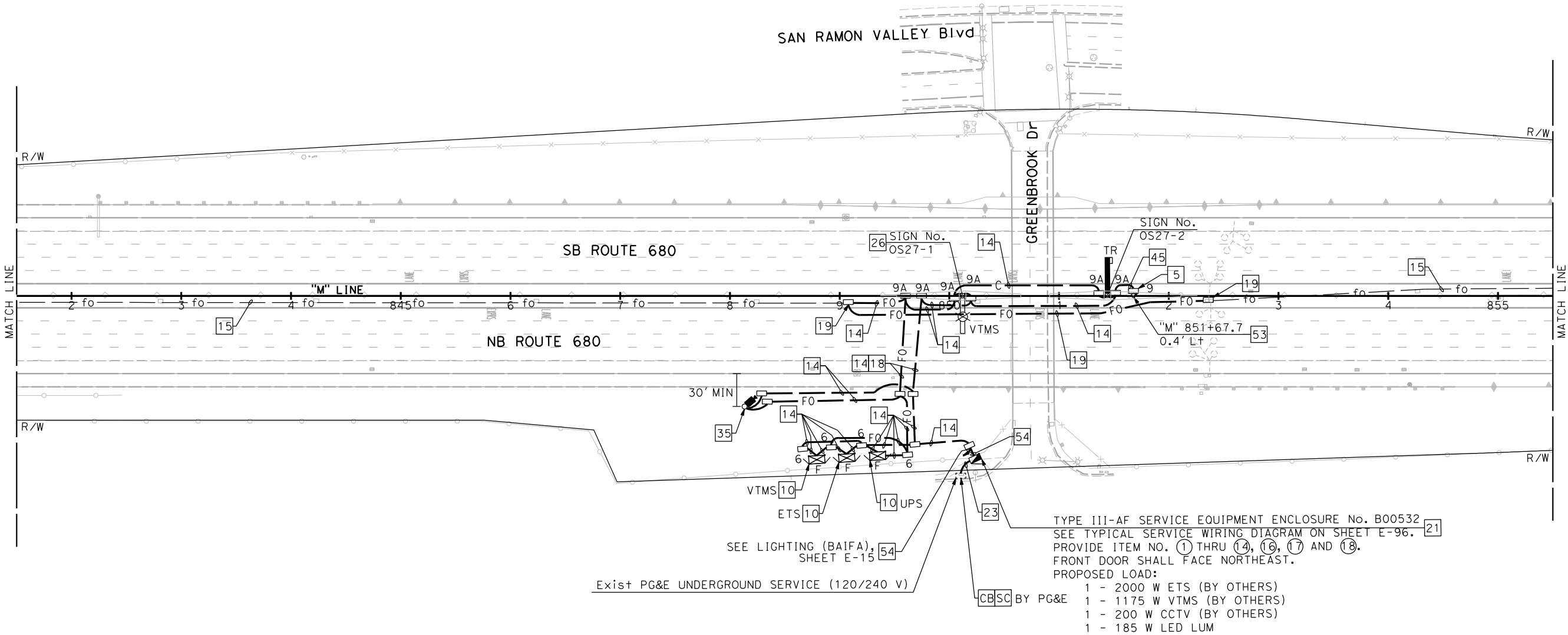
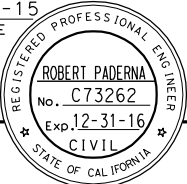
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	CALCULATED-DESIGNED BY	REVISOR	DATE
RAMSEY HESSEN	SPENCER LEE	ROBERT PADARNA	REVISOR	DATE	REVISOR

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

DANVILLE



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	522	617
Robert Paderna			4-08-15		
REGISTERED CIVIL ENGINEER			DATE		
4-21-15			PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 AND E-2



REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

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ELECTRONIC TOLL SYSTEM

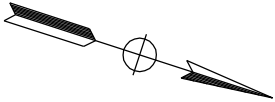
SCALE: 1" = 50'

E-61

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	RAMSEY HISSEN	CALCULATED- DESIGNED BY	SPENCER LEE	REVISED BY		

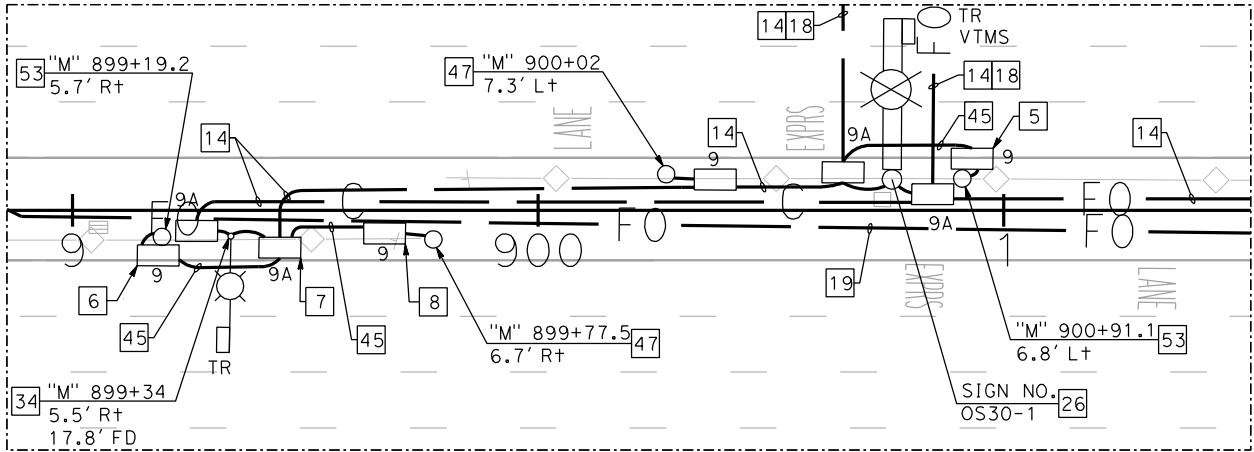
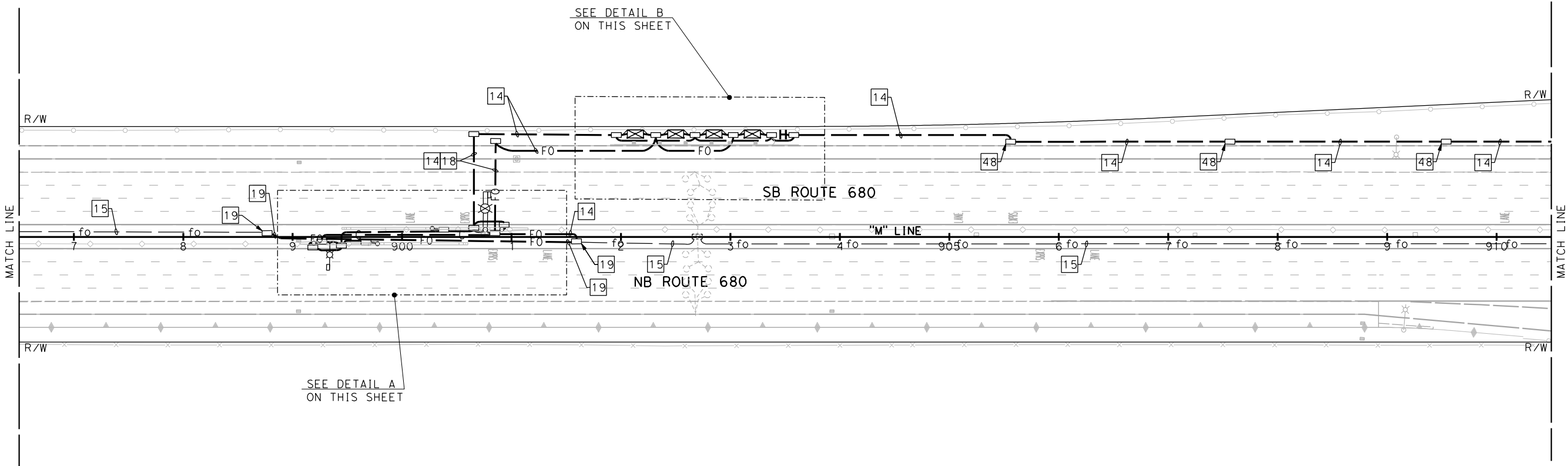
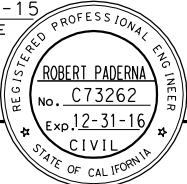
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

DANVILLE

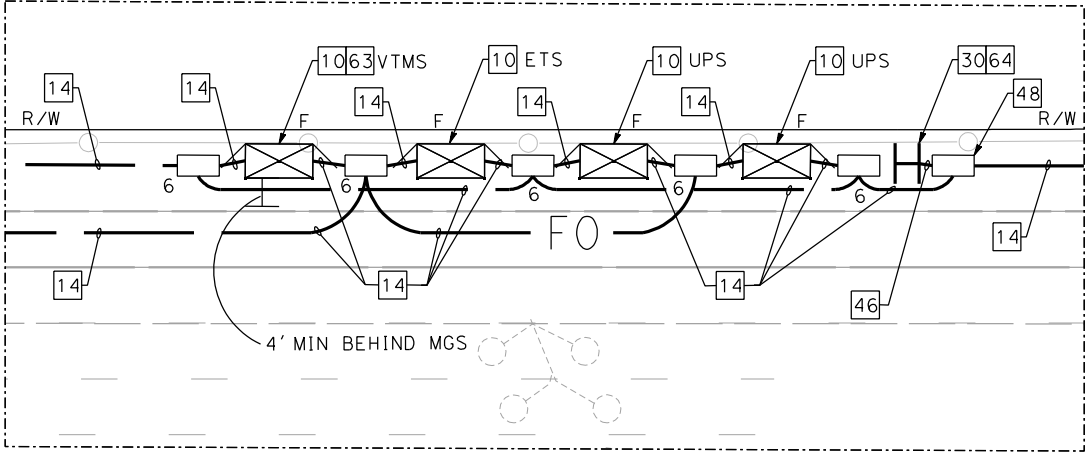


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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	526	617
Robert Paderna			4-08-15		
REGISTERED CIVIL ENGINEER			DATE		
4-21-15			PLANS APPROVAL DATE		
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URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



DETAIL A
SCALE: 1" = 20'



DETAIL B
SCALE: 1" = 20'

ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

E-65

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 AND E-2

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

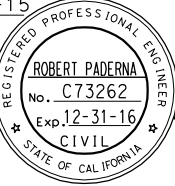
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	SPENCER LEE	REVISOR	DATE
RAMSEY HESSEN	CHECKED BY	ROBERT PADERNA	REVISOR	DATE	

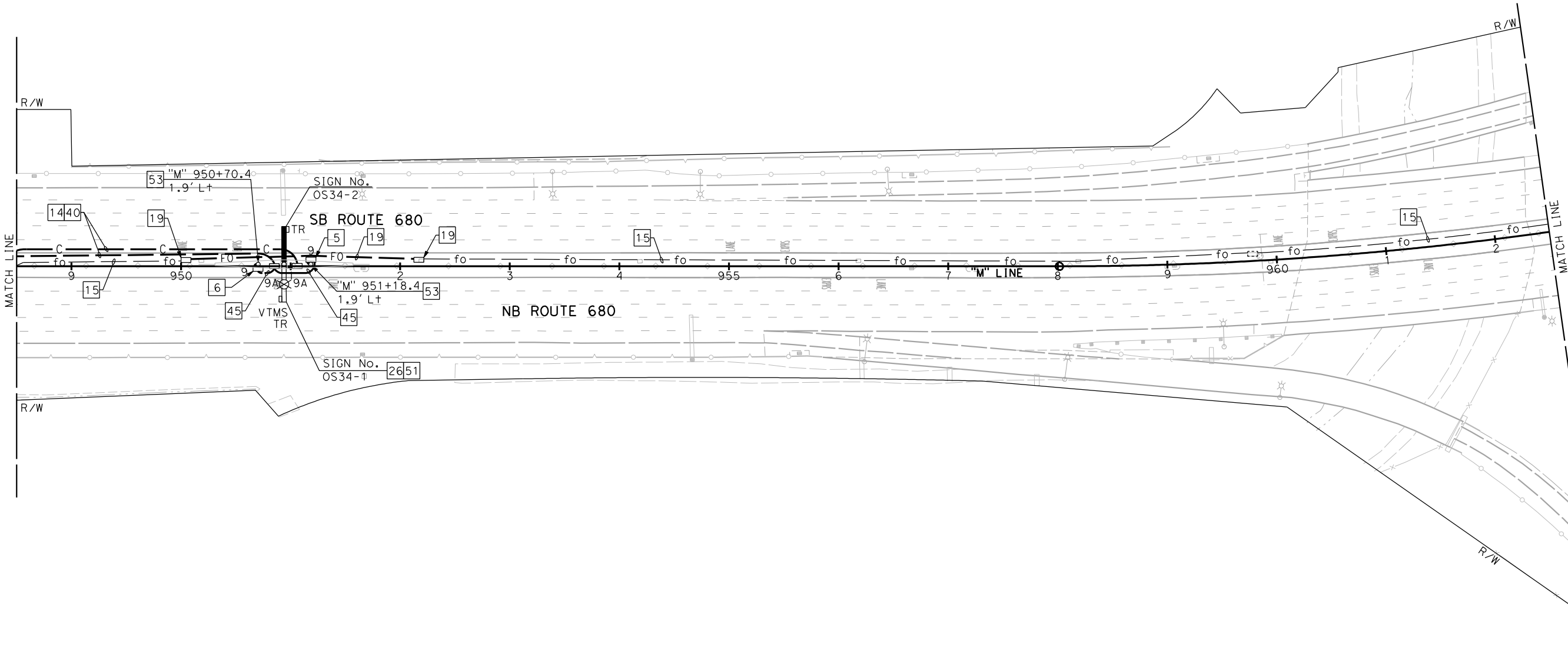
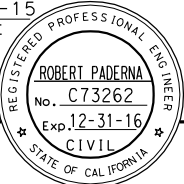
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

DANVILLE



1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	530	617
Robert Paderna			4-08-15		
REGISTERED CIVIL ENGINEER			DATE		
4-21-15			PLANS APPROVAL DATE		
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URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 AND E-2

1

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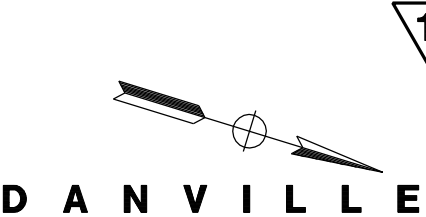
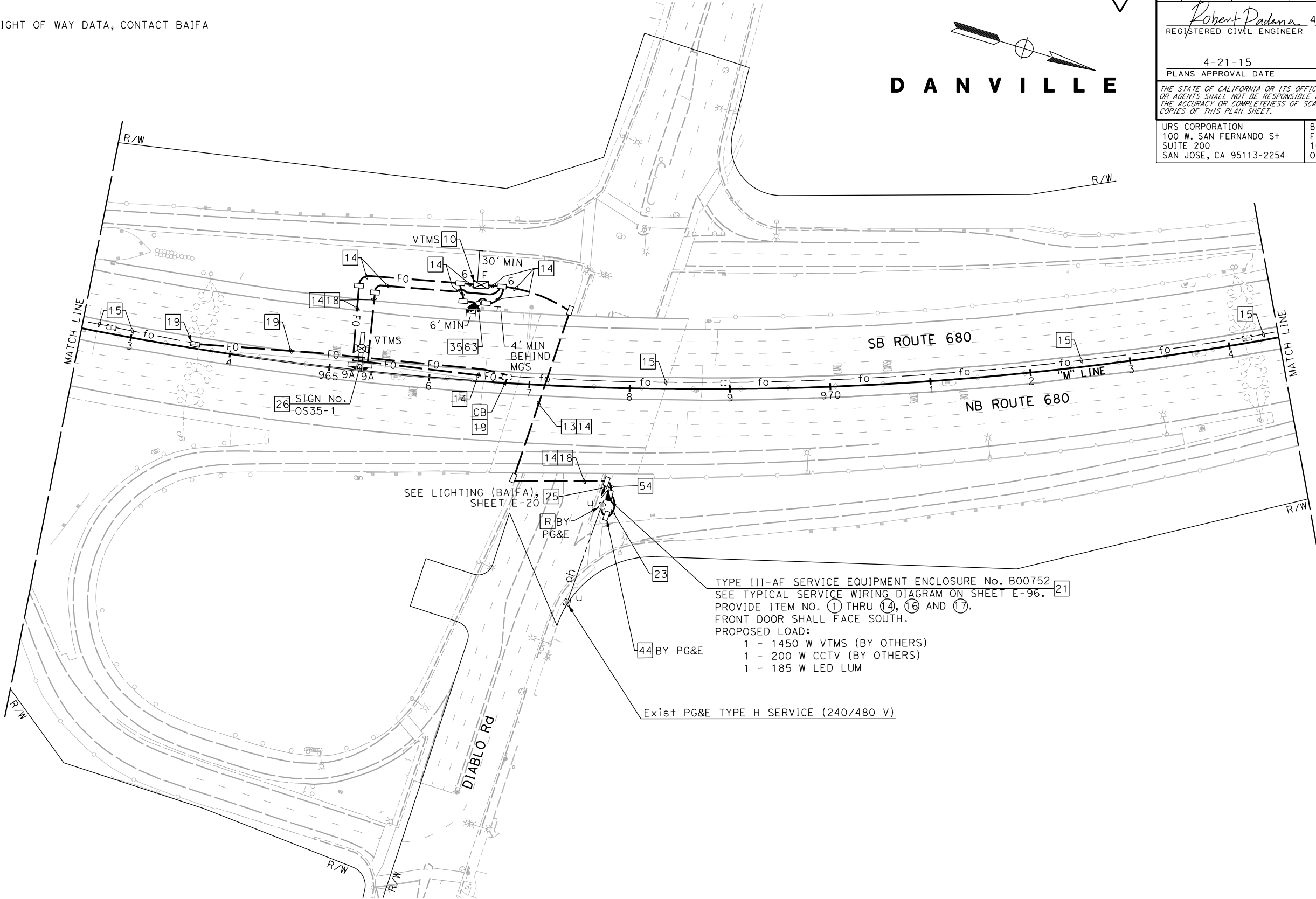
ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

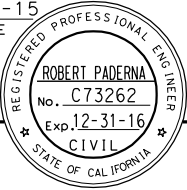
E-69

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	SPENCER LEE	REVISED BY	
ETG	RAMSEY HISSEN	CHECKED BY	ROBERT PADERNA	DATE REVISED	

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	531	617
Robert Paderna			4-08-15	DATE	
REGISTERED CIVIL ENGINEER			4-21-15	PLANS APPROVAL DATE	
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URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		

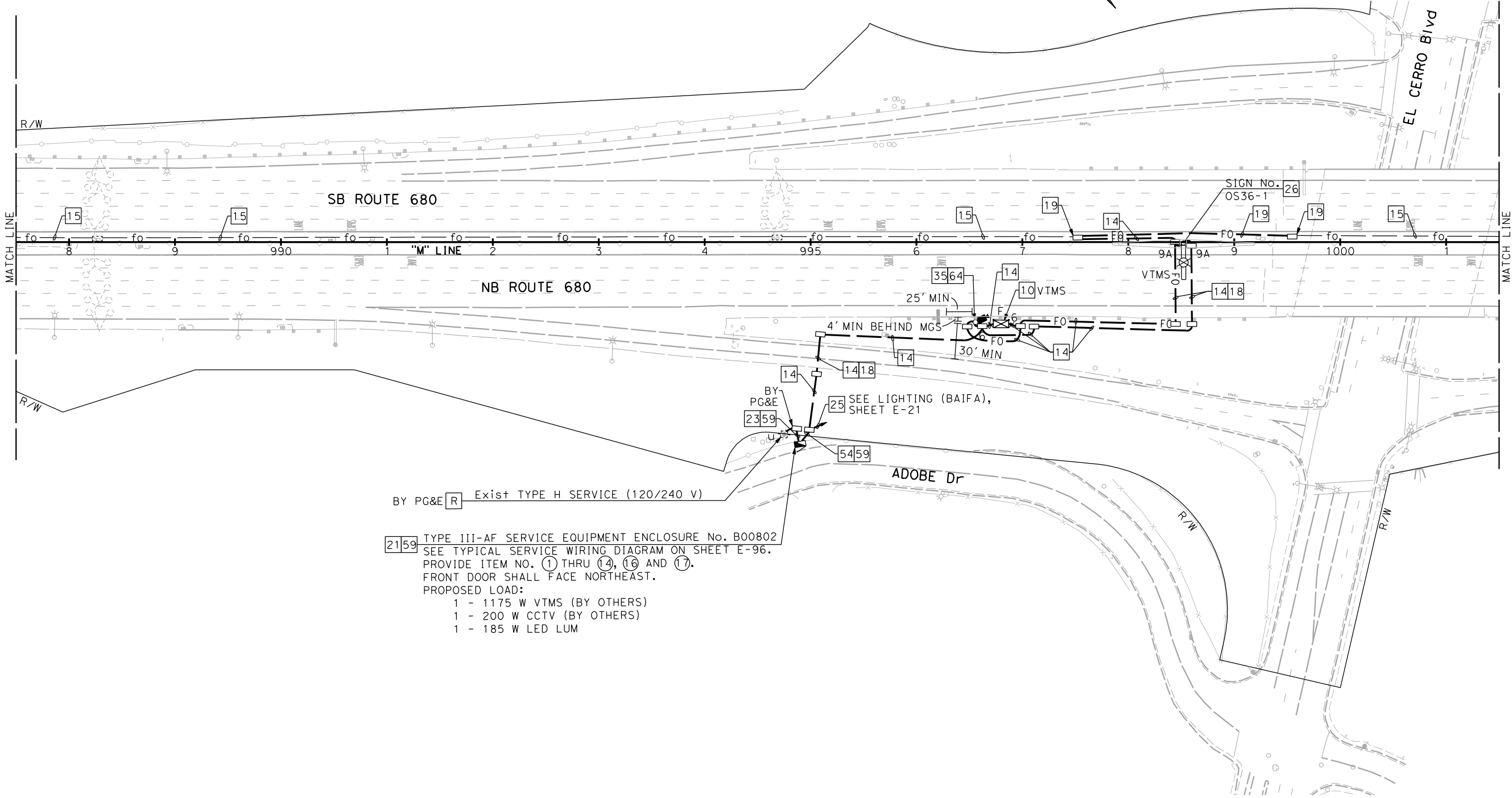


1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015
APPROVED FOR ELECTRICAL WORK ONLY

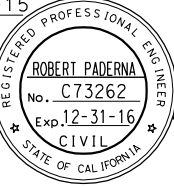
ELECTRONIC TOLL SYSTEM
SCALE: 1" = 50'
E-70

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	REVISOR	DATE
ST-Caltrans®	RAMSEY HUSSEN	BY	SPENCER LEE	ROBERT PADARNA	DATE

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala, CC	680	R20.1/R21.9, R0.0/14.0	533	617
Robert Paderna			4-08-15	DATE	
REGISTERED CIVIL ENGINEER			4-21-15	PLANS APPROVAL DATE	
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URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 AND E-2

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REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

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ELECTRONIC TOLL SYSTEM

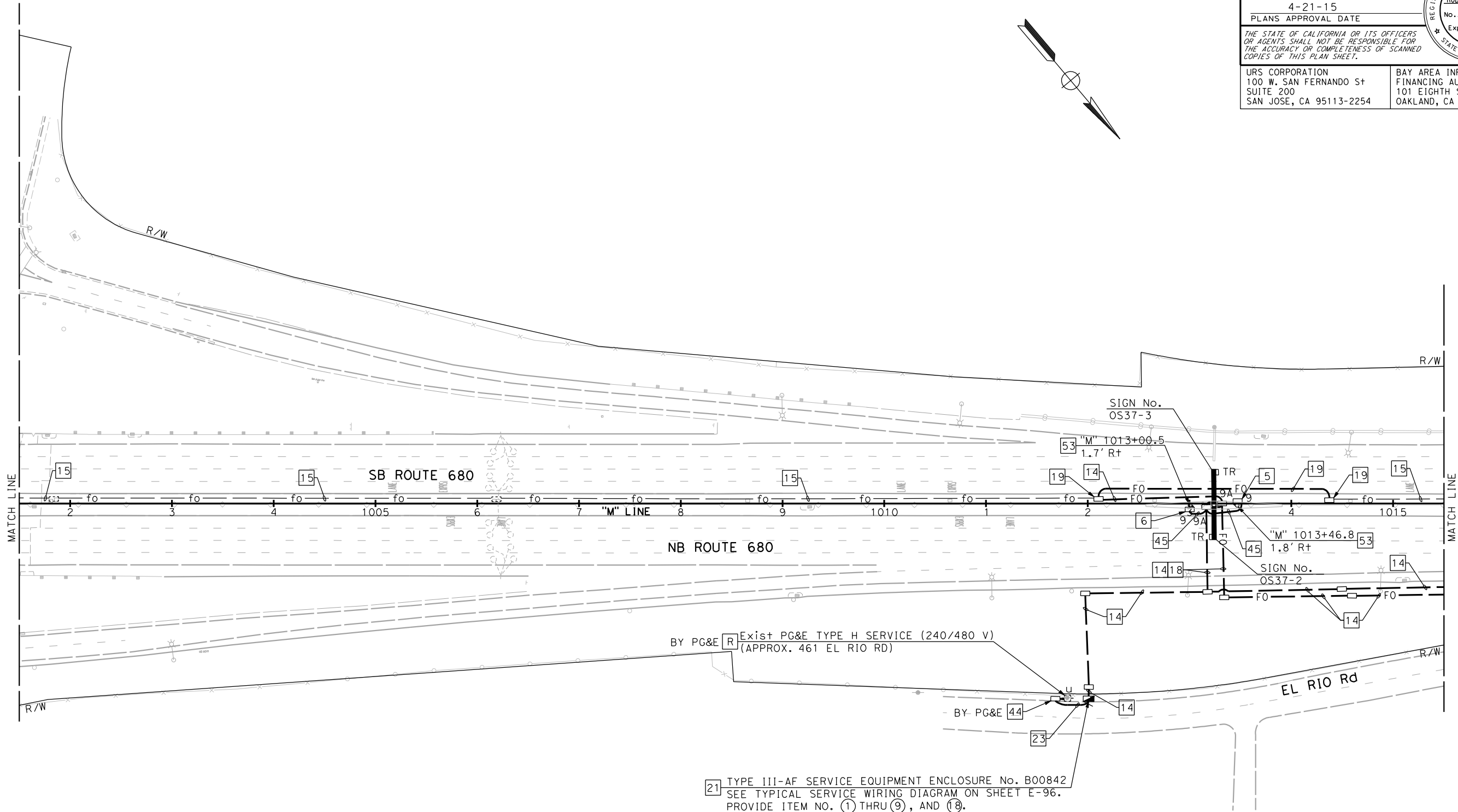
SCALE: 1" = 50'

E-72

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	REVISOR	DATE
ETG	RAMSEY HESSEN	CHECKED BY	DESIGNED BY	REVISOR	DATE
ETG	SPENCER LEE	CHECKED BY	DESIGNED BY	REVISOR	DATE
ETG	ROBERT PADARNA	CHECKED BY	DESIGNED BY	REVISOR	DATE

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

DANVILLE



21 TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. B00842
SEE TYPICAL SERVICE WIRING DIAGRAM ON SHEET E-96.
PROVIDE ITEM NO. ① THRU ⑨, AND ⑱.
FRONT DOOR SHALL FACE NORTHEAST.
PROPOSED LOAD:
1 - 2000 W ETS (BY OTHERS)

ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

E-73

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 AND E-2

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	REVISOR	DATE



RAMSEY HISSEN

CHECKED BY

DESIGNED BY

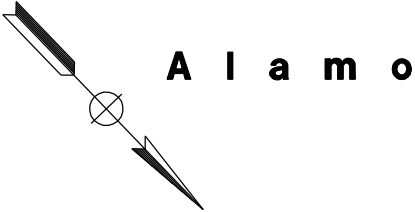
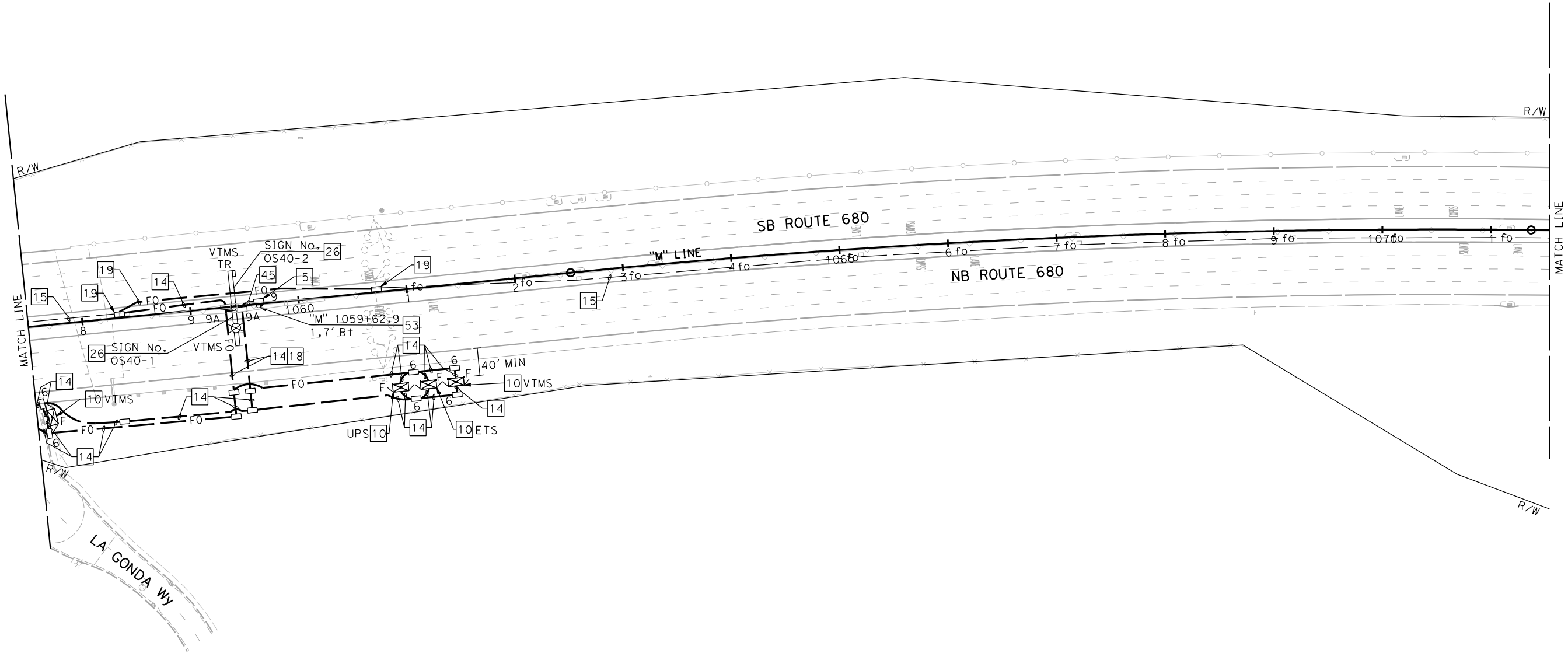
REVISOR

DATE

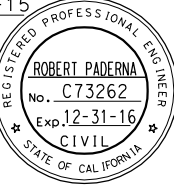
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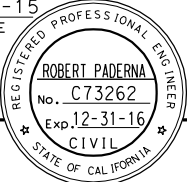
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

DANVILLE



1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala, CC	680	R20.1/R21.9, R0.0/14.0	538	617
<i>Robert Paderna</i>			4-08-15		
REGISTERED CIVIL ENGINEER			DATE		
4-21-15			PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

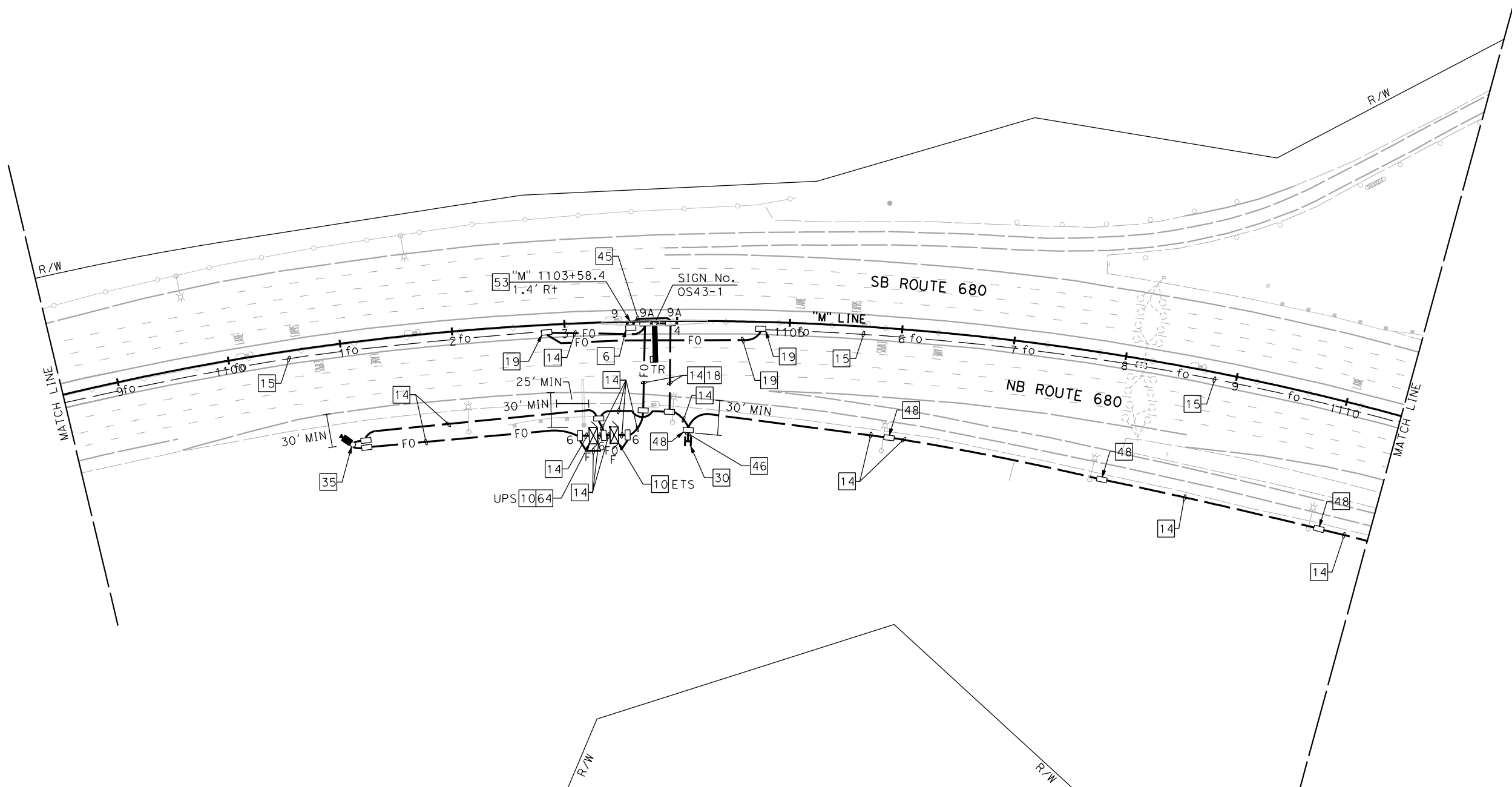
ELECTRONIC TOLL SYSTEM

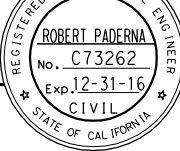
SCALE: 1" = 50'

E-77

[illegible]

FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala., CC	680	R20.1/R21.9, R0.0/14.0	541	617
<u>Robert Paderna</u> REGISTERED CIVIL ENGINEER			4-08-15 DATE		
4-21-15 PLANS APPROVAL DATE					
<p>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</p>					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 AND E-2

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

E-80

BORDER LAST REVISED 7/2/2010

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DGN FILE => ...\\0414000489ua080.add1.dgn

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RELATIVE BORDER SCALE
IS IN INCHES



UNIT 0750

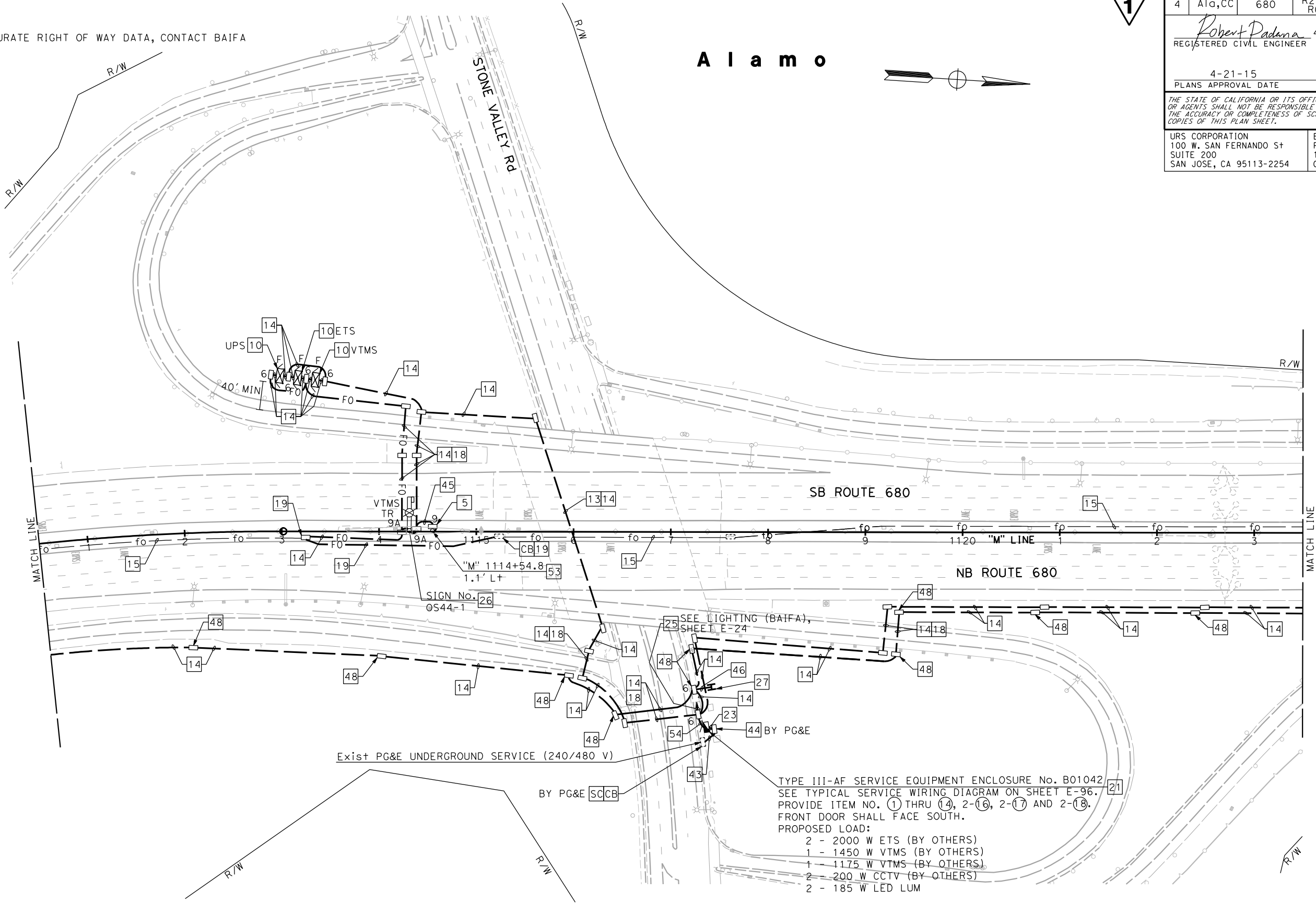
PROJECT NUMBER & PHASE

04140004891

DATE PLOTTED => 5/17/2015	LAST REVISION
TIME PLOTTED => 1:49:11 PM	4-08-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	SPENCER LEE	REVISED BY	
ETG	RAMSEY HISSEN	CHECKED BY	ROBERT PADERNA	DATE	REVISED

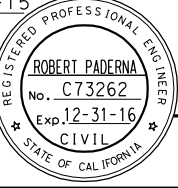
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



1

A l a m o



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala, CC	680	R20.1/R21.9, R0.0/14.0	542	617
Robert Paderna			4-08-15	DATE	
REGISTERED CIVIL ENGINEER			4-21-15	PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
URS CORPORATION 100 W. SAN FERNANDO St SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH St, 3rd Floor OAKLAND, CA 94607		

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 AND E-2

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRONIC TOLL SYSTEM

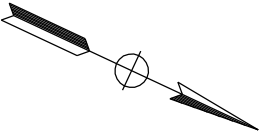
SCALE: 1" = 50'

E-81

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-BY	REVISOR	DATE
RAMSEY HISSIN	SPENCER LEE	ROBERT PADARNA	REVISOR	DATE

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

A l a m o



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala,CC	680	R20.1/R21.9, R0.0/14.0	543	617

Robert Paderna
REGISTERED CIVIL ENGINEER

4-08-15
DATE

4-21-15
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.

URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

REGISTERED PROFESSIONAL ENGINEER

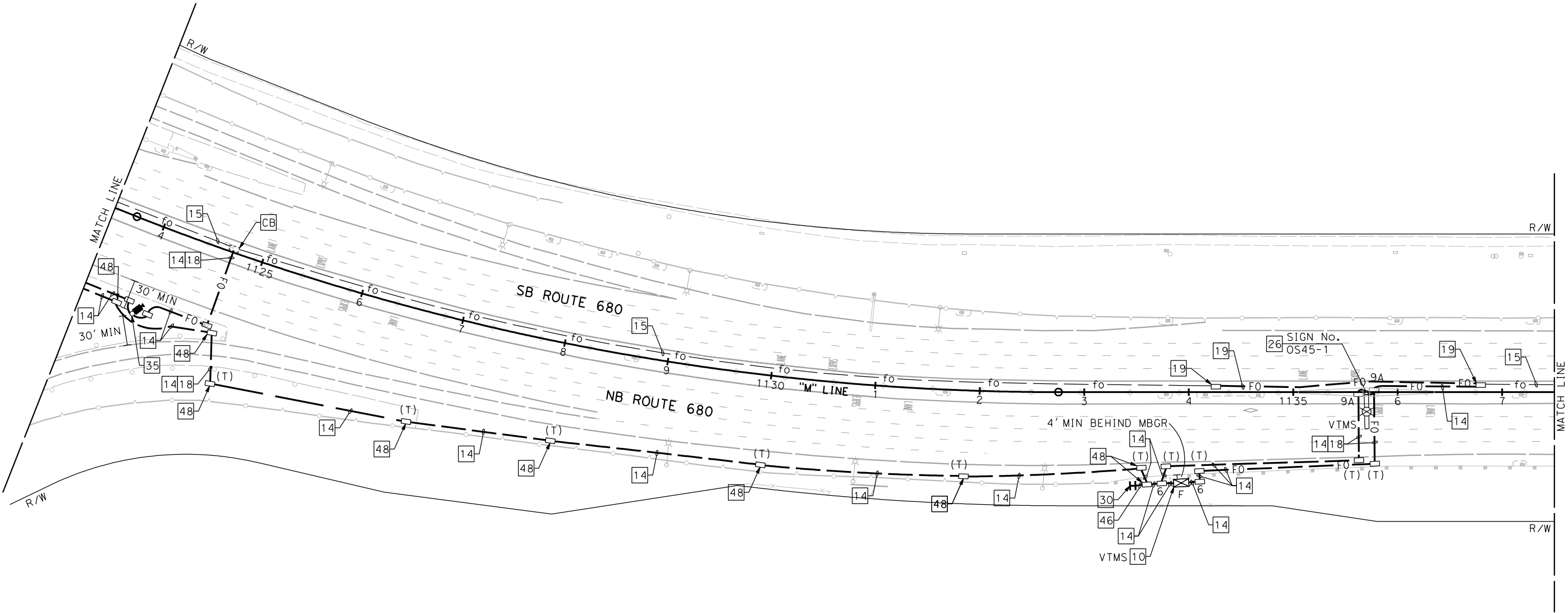
ROBERT PADARNA

No. C73262

Exp. 12-31-16

CIVIL

STATE OF CALIFORNIA



FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 AND E-2



REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

E-82

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	REVISOR	DATE
RAMSEY HISSON	SPENCER LEE	ROBERT PADERNA	REVISOR	DATE	REVISOR

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala,CC	680	R20.1/R21.9, R0.0/14.0	545	617

Robert Paderna

REGISTERED CIVIL ENGINEER

4-08-15

DATE

4-21-15
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.

ROBERT PADERNA

No. C73262

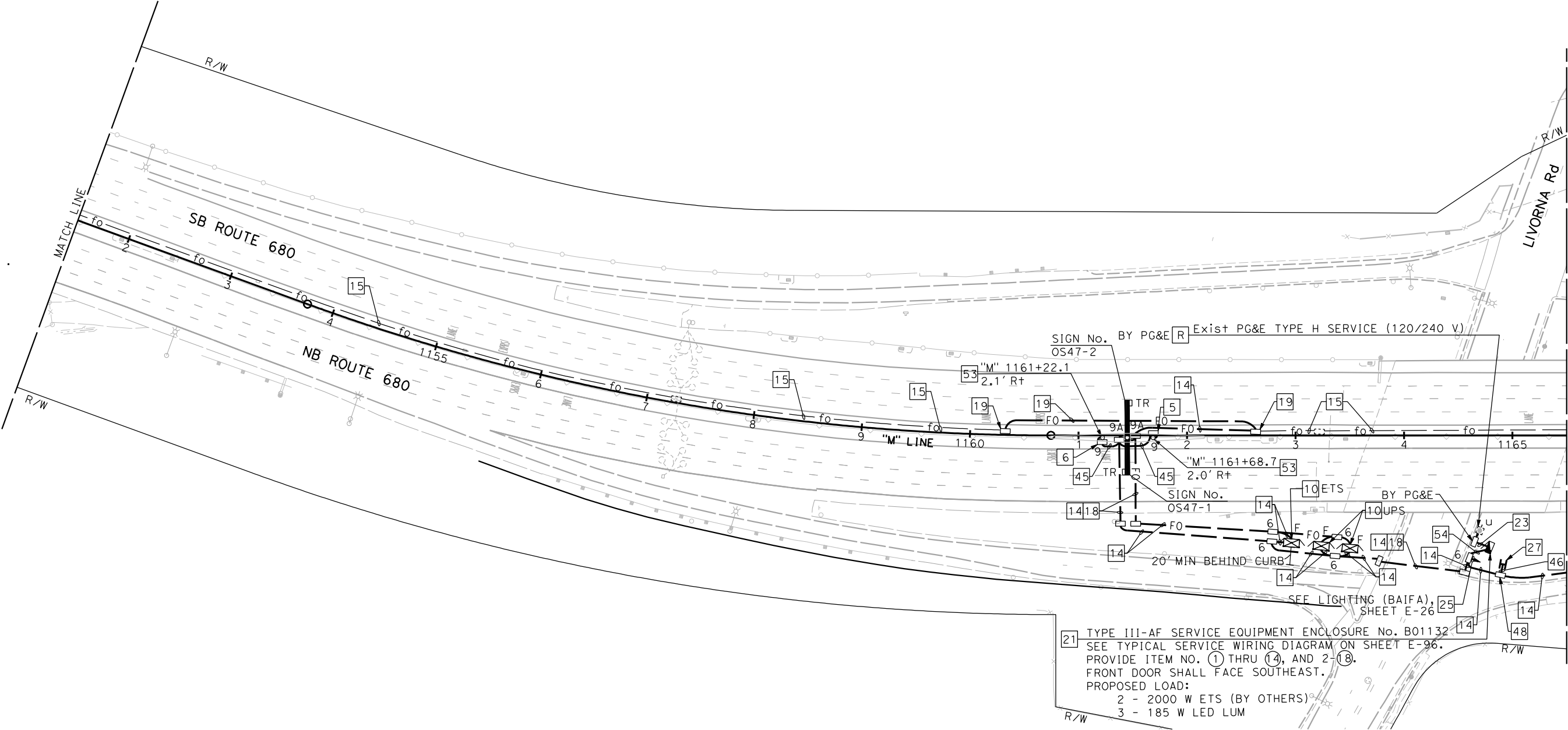
Exp. 12-31-16

CIVIL

STATE OF CALIFORNIA

URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607



21 TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. B01132
SEE TYPICAL SERVICE WIRING DIAGRAM ON SHEET E-96.
PROVIDE ITEM NO. ① THRU ⑭, AND 2-⑮.
FRONT DOOR SHALL FACE SOUTHEAST.
PROPOSED LOAD:
2 - 2000 W ETS (BY OTHERS)
3 - 185 W LED LUM

ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

E-84

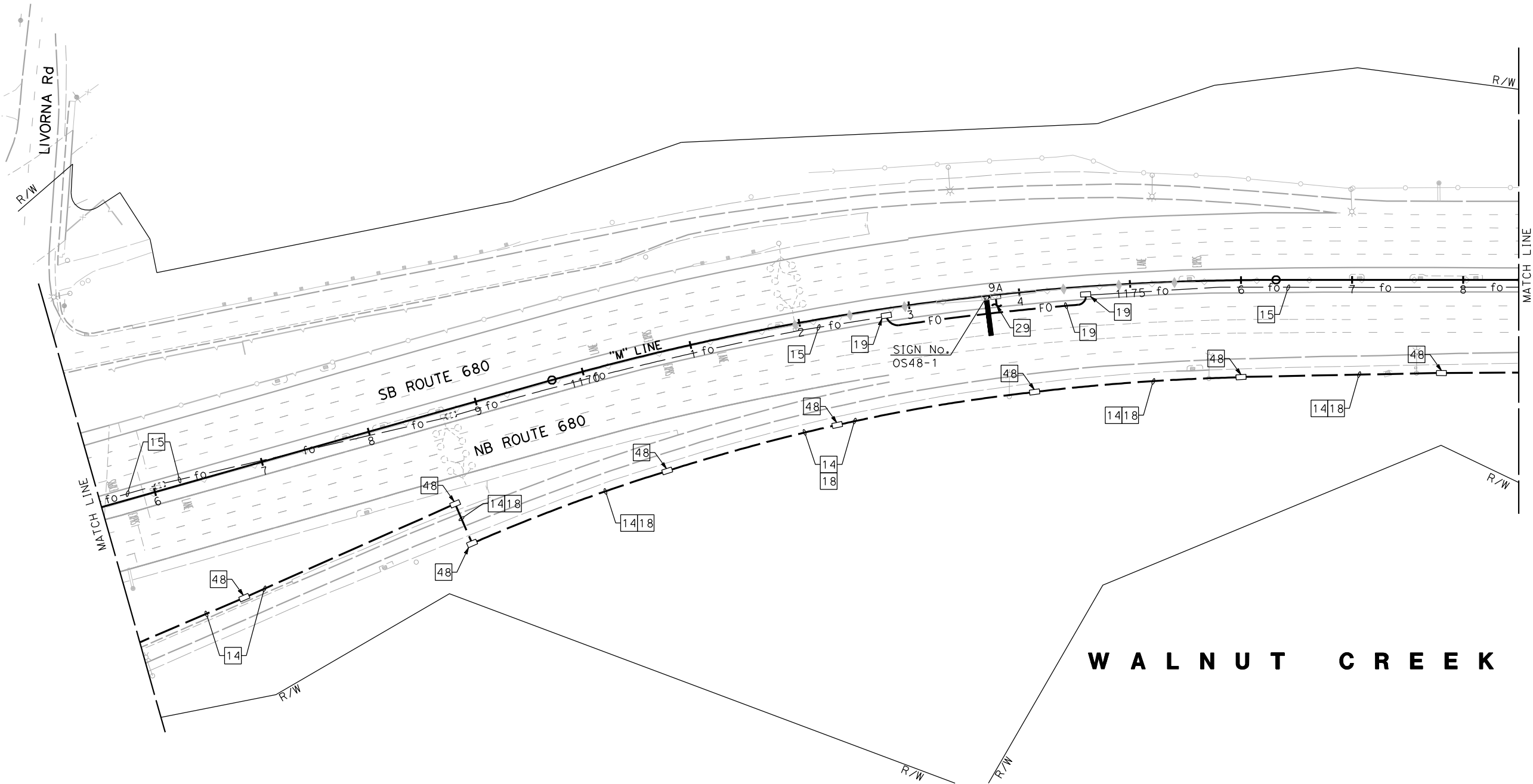
FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 AND E-2

1 **REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015**

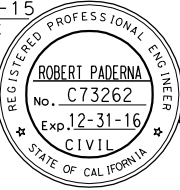
APPROVED FOR ELECTRICAL WORK ONLY

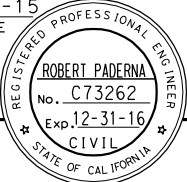
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	REVISOR	DATE
RAMSEY HISSON	SPENCER LEE	ROBERT PADARNA	REVISOR	DATE	REVISOR

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala,CC	680	R20.1/R21.9, R0.0/14.0	546	617
Robert Paderna			4-08-15		
REGISTERED CIVIL ENGINEER			DATE		
4-21-15					
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

E-85

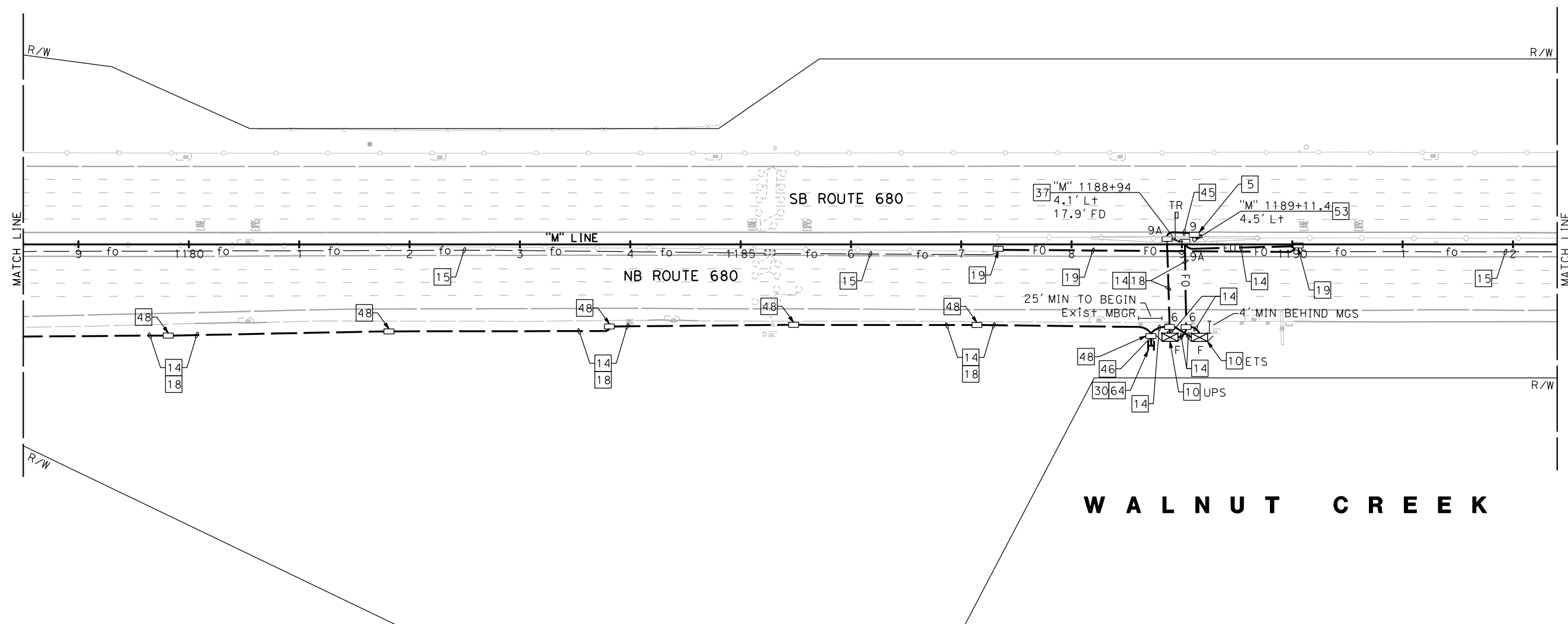
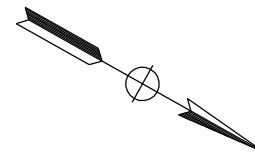
FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 AND E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	SPENCER LEE	REVISED BY	
Caltrans	RAMSEY HISSEN	CHECKED BY	ROBERT PADERNA	DATE REVISED	

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

A l a m o



W A L N U T C R E E K

ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

E - 86

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 AND E-2

1 **REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015**
APPROVED FOR ELECTRICAL WORK ONLY

BORDER LAST REVISED 7/2/2010

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DGN FILE => ...\\0414000489ua086.add1.dgn

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RELATIVE BORDER SCALE
IS IN INCHES



UNIT 0750

PROJECT NUMBER & PHASE

04140004891

LAST REVISION	DATE PLOTTED => 5/17/2015
4-08-15	TIME PLOTTED => 1:49:24 PM

FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA



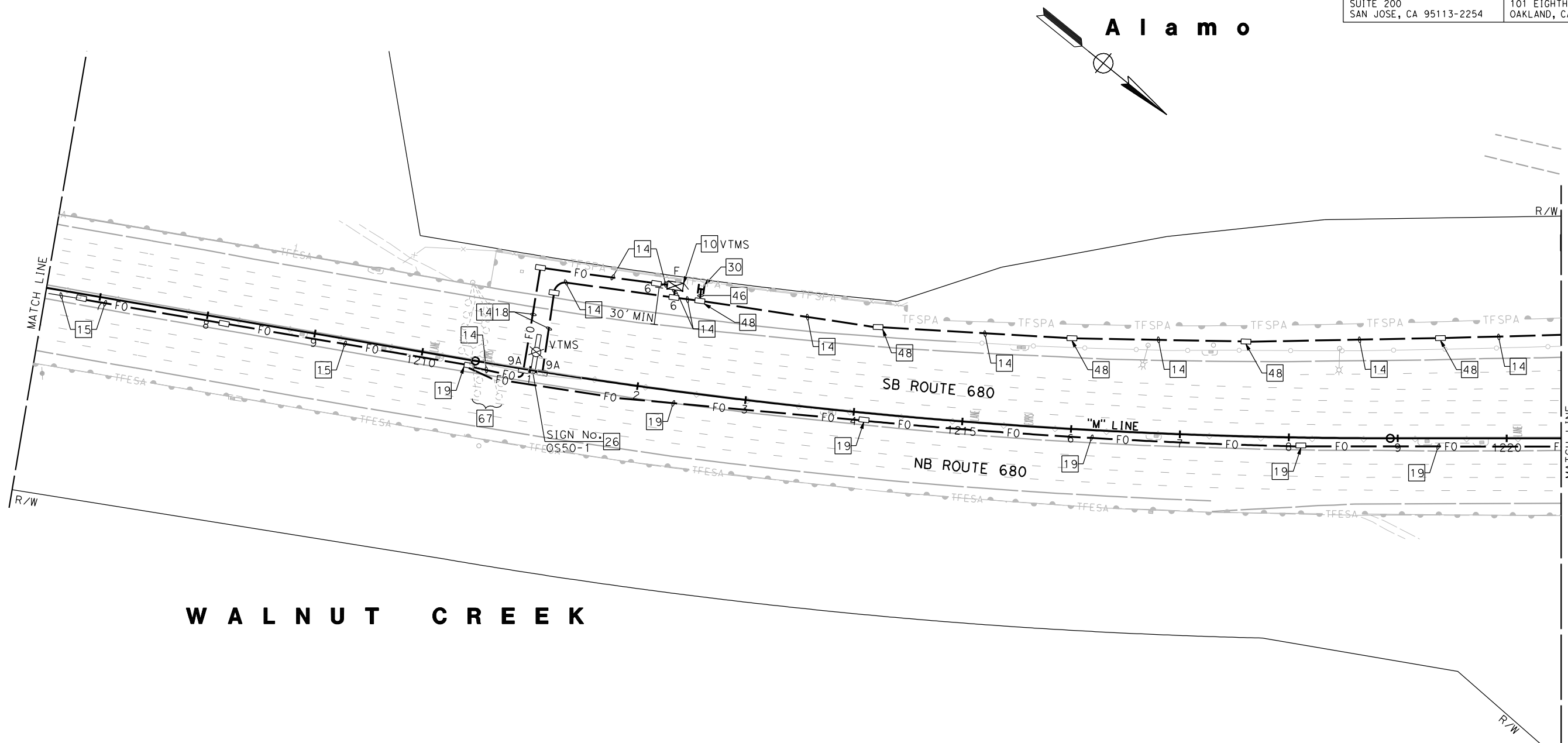
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala, CC	680	R20.1/R21.9, R0.0/14.0	549	617

Robert Paderna 4-08-15
 REGISTERED CIVIL ENGINEER DATE

4-21-15
 PLANS APPROVAL DATE

*THE STATE OF CALIFORNIA OR ITS OFFICERS
 OR AGENTS WILL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF SCANNED
 COPIES OF THIS PLAN SHEET.*

URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254	BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607
---	---



W A L N U T C R E E K

ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

E - 88



REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEETS E-1 AND E-2

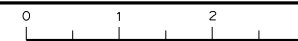
BORDER LAST REVISED 7/2/2010

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RELATIVE BORDER SCALE
IS IN INCHES



UNIT 0750

PROJECT NUMBER & PHASE

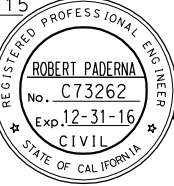
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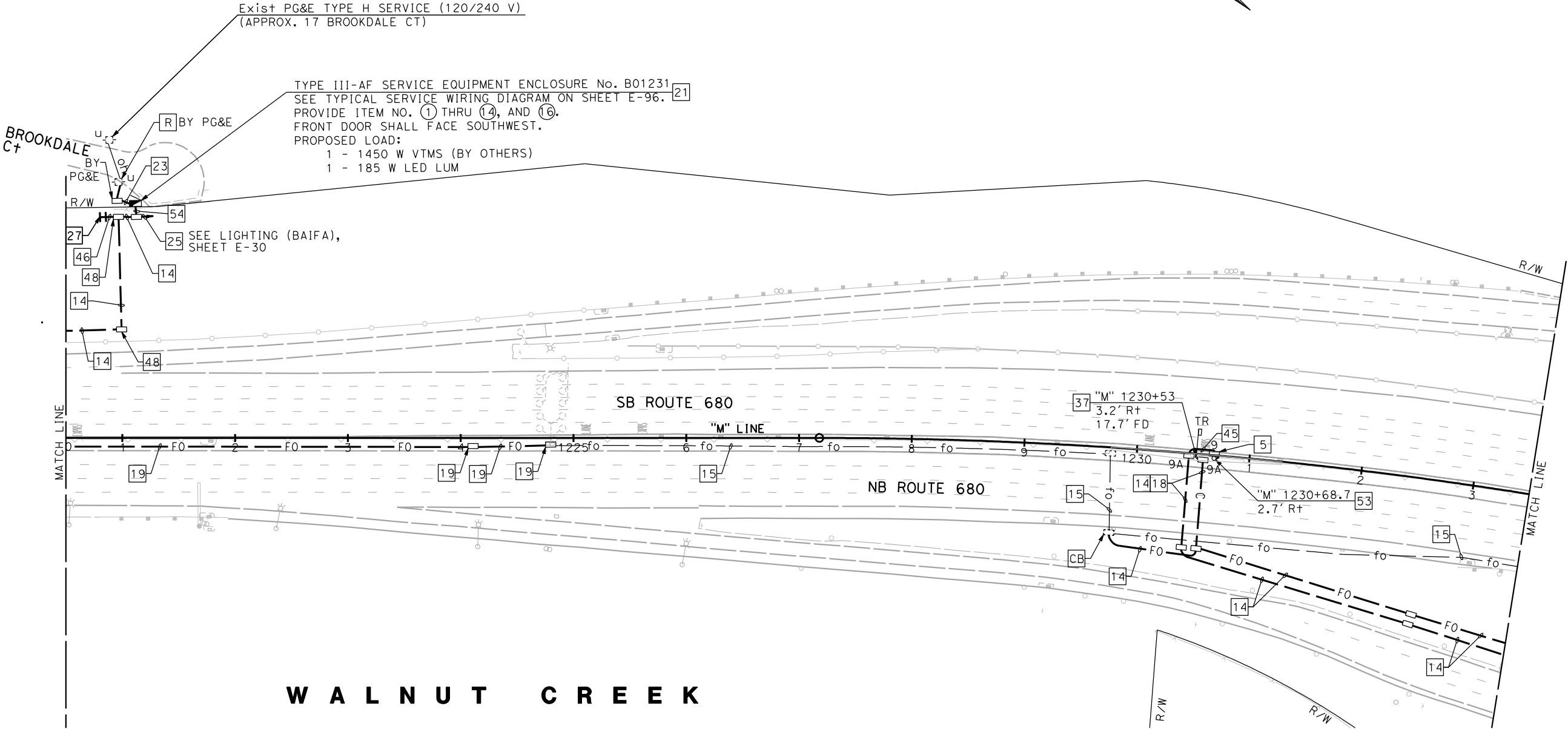
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TIME PLOTTED => 1:49:26 PM	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
ETG	RAMSEY HISSON	CHECKED BY	SPENCER LEE	DATE

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT BAIFA

1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala,CC	680	R20.1/R21.9, R0.0/14.0	550	617
Robert Paderna			4-08-15	DATE	
REGISTERED CIVIL ENGINEER			4-21-15	PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
URS CORPORATION 100 W. SAN FERNANDO St SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH St, 3rd Floor OAKLAND, CA 94607		



1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRONIC TOLL SYSTEM

SCALE: 1" = 50'

E-89

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

EE-Caltrans®

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-DESIGNED BY

CHECKED BY

SPENCER LEE

ROBERT PADERNA

REVISED BY

DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala,CC	680	R20.1/R21.9, R0.0/14.0	565	617

Robert Paderna

REGISTERED CIVIL ENGINEER

4-08-15

DATE

4-21-15

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER

ROBERT PADERNA

No. C73262

Exp. 12-31-16

CIVIL

STATE OF CALIFORNIA

URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

ELECTRONIC TOLL SYSTEM QUANTITIES

SHEET No.	CONDUIT [N]		PULL BOXES [N]						4"DIAMETER NPS XS SIGN POST [N]		CONTROLLER CABINET FOUNDATION PAD [N]	H-FRAME		POLE TYPE [N]						DETECTOR LOOP REPLACEMENT [N]	TYPE III-AF SERVICE CABINET [N]	CONDUCTORS
	2"	3"	#5	#5(T)	#6	#6E	#9	#9A	11' (VES)	7' (CHP)		STEP-UP TRANSFORMER	STEP-DOWN TRANSFORMER	60-5-100 20' SMA	60-5-100 25' SMA	61-5-100 20' SMA	CCTV 5	CCTV 35	CCTV 40			#6
	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA		EA	EA	EA	EA	EA	EA	EA	EA			EA
E-34		930	3		1	1					1		1								860	
E-35		2,160	10					2				1					1			2	1400	
E-36		930	3		2			2			1											
E-37		10						1														
E-38																						
E-39	20	1,250	4		2		1	4	1		2				1					1		
E-40																						
E-41																						
E-42		970	5																	1		
E-43	20	1,300	6	5	4		1	6	1		3				1					1		
E-44		180	1																	1		
E-45	20	1,030	5		3		1	2	1		2											
E-46																						
E-47	40	630	9		4		2	4	2		3	1	1		1					1		
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E-49		320	2		2						1							1				
E-50	100	2,500	7		9		4	4	2	2	4									1		
E-51		500	4															1				
E-52																						
E-53	40	780	3		4		2	2	2		3									1		
E-54		980	6					2												1		
E-55		430	2		2						1							1				
E-56		330			2						1							1				
E-57	20	2,980	21	1	3		1	4	1		2	1	2		1					1		
E-58	40	1,920	12		2		1	2	1		1	1	1					1		1		
E-59		60			2						2											
E-60																						
E-61	20	1,310	7		4		1	6	1		3							1		1		
E-62																						
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E-64																						
E-65	120	1,750	6		5		4	4	2	2	4		1			1						
E-66		820	9									1						1		1		
E-67																						
E-68		2,150	12		5		4				4								1	4	1	
E-69	40	500					2	2	2													
E-70		980	7		2			2			1							1		1		
E-71																						
E-72		930	7		2			2			1							1		1		
E-73	60	1,000	6				2	2	2											1		
SUB- TOTAL	540	29,630	157	6	58	1	26	53	18	4	40	5	6	0	4	1	1	9	1	4	18	2,260

[N] - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

SEE SHEET EE-22 FOR BACKHAUL COMMUNICATIONS QUANTITIES.



REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

ELECTRICAL QUANTITIES
(ELECTRONIC TOLL SYSTEM)

NO SCALE

E-104

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

ET Caltrans®

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-DESIGNED BY

CHECKED BY

SPENCER LEE

ROBERT PADERNA

REVISED BY

DATE REVISED

1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala,CC	680	R20.1/R21.9, R0.0/14.0	566	617

Robert Paderna

REGISTERED CIVIL ENGINEER

4-08-15

DATE

4-21-15

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.

URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

REGISTERED PROFESSIONAL ENGINEER

ROBERT PADERNA

No. C73262

Exp. 12-31-16

CIVIL

STATE OF CALIFORNIA

ELECTRONIC TOLL SYSTEM QUANTITIES

SHEET No.	CONDUIT [N]		PULL BOXES [N]						4" DIAMETER NPS XS SIGN POST [N]		CONTROLLER CABINET FOUNDATION PAD [N]	H-FRAME		POLE TYPE [N]						DETECTOR LOOP REPLACEMENT [N]	TYPE III-AF SERVICE CABINET [N]	CONDUCTORS
	2"	3"	#5	#5(T)	#6	#6E	#9	#9A	11' (VES)	7' (CHP)		STEP-UP TRANSFORMER	STEP-DOWN TRANSFORMER	60-5-100 20' SMA	60-5-100 25' SMA	61-5-100 20' SMA	CCTV 5	CCTV 35	CCTV 40			
	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA		EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF
E-74		540	2		4						3											
E-75																						
E-76		680	7															1			1	
E-77	20	1,100	5		6		1	2	1		4											
E-78																						
E-79																						
E-80	40	1,430	9		3		1	2	1		2		1					1				
E-81	20	3,420	23		6		1	2	1		3	1									1	
E-82		1,840	6	10	2			2			1		1					1				
E-83																						
E-84	60	940	5		5		2	2	2		3	1									1	
E-85		1,320	8					1														
E-86	30	1,310	6		2		1	2	1		2		1	1								
E-87																						
E-88		1,300	7		2			2			1		1									
E-89	20	1,010	7				1	2	1			1		1							1	
E-90		1,180	6		2			2			2										2	
E-91																						
E-92																						
E-93		710	5	2	3			2			2										1	
E-94		200	2					2														
E-95		380	4	1														1			1	
SUB-TOTAL	190	17,360	102	13	35	0	7	23	7	0	23	3	4	2	0	0	0	4	0	0	8	
GRAND TOTAL	730	46,990	259	19	93	1	33	76	25	4	63	8	10	2	4	1	1	13	1	8	26	2,260

[N] - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
SEE SHEET EE-22 FOR BACKHAUL COMMUNICATIONS QUANTITIES.

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

ELECTRICAL QUANTITIES
(ELECTRONIC TOLL SYSTEM)
NO SCALE

E-105

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-DESIGNED BY

CHECKED BY

JOEY PASKEY

KEVIN AGUIGUI

REVISED BY

DATE REVISED

•

•

×

×

×

×

NOTES:

1. THIS PROJECT HAS BEEN DESIGNED USING CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND STANDARD SPECIFICATIONS, 2010 EDITION.

2. ALL NEW INFRASTRUCTURE SHALL BE INSTALLED WITHIN RIGHT-OF-WAY OR EASEMENTS. CONTRACTOR MUST IDENTIFY AND IS RESPONSIBLE FOR ALL UTILITY IDENTIFICATION PRIOR TO INSTALLATION.

3. CALL UNDERGROUND SERVICE ALERT (U.S.A.) AT (800) 227-2600 AT LEAST 48 HOURS PRIOR TO EXCAVATION TO LOCATE ALL EXISTING UNDERGROUND UTILITIES. UTILITY LOCATION SERVICES SHALL MEET LOCAL JURISDICTION REQUIREMENTS.

4. THE FOLLOWING UNDERGROUND FACILITIES MAY BE LOCATED IN THE PROJECT AREA: PULL BOXES, CONDUIT, AND CABLE FOR STREETLIGHTS, TRAFFIC SIGNALS, AND TRAFFIC OPERATIONS SYSTEMS. UNLESS OTHERWISE NOTED, ALL EXISTING FACILITIES SHALL BE PROTECTED-IN-PLACE. THE CONTRACTOR MUST CONTACT THE APPROPRIATE LOCAL JURISDICTION FOR LOCATIONS AT LEAST 2 WORKING DAYS PRIOR TO WORKING IN THE AREA.

5. THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES IS APPROXIMATE AND HAS NOT BEEN INDEPENDENTLY VERIFIED BY THE DESIGN ENGINEER. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON PLANS WERE OBTAINED FROM THE BAY AREA EXPRESS LANES COMMUNICATION NETWORK CONDUIT TESTING REPORT AND CALTRANS RECORDS AND PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. THE CONTRACTOR WILL NOT BE COMPENSATED FOR THE REPAIR OF UTILITIES OR SURROUNDING INFRASTRUCTURE THAT IS DAMAGED DURING CONSTRUCTION.

6. CONTRACTOR SHALL PROTECT ALL EXISTING INFRASTRUCTURE AREAS NOT SPECIFIED FOR REMOVAL, AND SHALL BE RESPONSIBLE TO REPLACE OR REPAIR ANY DAMAGED INFRASTRUCTURE AREAS IN A TIMELY MANNER AT NO ADDITIONAL COST. THE CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING PLANTINGS, MATERIALS, AESTHETIC FEATURES, LANDSCAPING, AND IRRIGATION SYSTEMS, AND REPLACE OR RECONSTRUCT ANY PLANTS, MATERIALS, AESTHETIC FEATURES, LANDSCAPING, AND IRRIGATION SYSTEMS DAMAGED DURING THE COURSE OF CONSTRUCTION PER THE LANDSCAPE AND AESTHETICS PERFORMANCE SPECIFICATION.

7. CONDUIT ROUTING, PULL BOX, POLE, AND CABINET LOCATIONS ARE SCHEMATIC FOR THE PURPOSE OF CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION. FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

8. ALL NEW CONDUIT SHALL BE INSTALLED PER THE CALTRANS STANDARD SPECIFICATIONS AND PER SPECIFIED DETAILS ON THESE SHEETS UNLESS OTHERWISE NOTED ON THE PLANS.

9. THE CONTRACTOR SHALL PLACE ALL CONDUIT IN A MANNER THAT MINIMIZES HORIZONTAL AND VERTICAL BENDING, NOT TO EXCEED 1 FOOT PER 10 FEET.

10. ANY REMOVAL OF PAVEMENT NECESSARY TO FACILITATE INSTALLATION OF CONDUIT UNDER ROADWAY SHALL BE REPLACED TO ITS ORIGINAL CONDITION.

11. PULL BOXES SHALL BE INSTALLED PER STANDARD PLANS AND PER DETAILS IN THESE PLANS. PULL BOXES SHALL NOT BE INSTALLED IN SIDEWALK RAMPS NOR IN OR WITHIN TEN (10) FEET OF ANY DRIVEWAY OR LOCATED IN SWALES OR DITCHES. PULL BOXES TO BE INSTALLED IN THE PAVED ROADWAY SHOULDER SHALL BE TRAFFIC-RATED.

12. THE COMPLETE ELECTRICAL SYSTEM, INCLUDING PULL BOXES AND VAULTS, SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC). ALL WORK SHALL BE IN COMPLIANCE WITH THE NEC AND LOCAL CODES.

13. ELECTRICAL PULL BOXES FOR CONDUIT SYSTEMS THAT DO NOT CONTAIN FIBER OPTIC CABLE SHALL HAVE A MAXIMUM SPACING OF 500'.

14. LOCATION OF EXISTING PULL BOXES, VAULTS, TSCs, ARE APPROXIMATE. CONTRACTOR SHALL LOCATE ALL EXISTING PULL BOXES TO BE UTILIZED AS PART O THE BACKHAUL COMMUNICATIONS SYSTEM PRIOR TO STARTING WORK.

ABBREVIATIONS:
(SEE RSP ES-1A, RSP ES 1-B, RSP ES-1C)

BAIFA

BAY AREA INFRASTRUCTURE FINANCING AUTHORITY

CALTRANS

CALIFORNIA DEPARTMENT OF TRANSPORTATION

E

ELECTRIC

FOB

FACE OF BARRIER

FOT

FIBER OPTIC TRUNKLINE

SMFO

SINGLE MODE FIBER OPTIC

STR

STRAND

LEGEND:
(SEE RSP ES-1A, RSP ES 1-B, RSP ES-1C)

NEW

EXISTING

FB

FIBER OPTIC PULL BOX
(SEE SHEET E-17 FOR
INSTALLATION DETAIL)

INDEX OF BACKHAUL COMMUNICATION PLANS:

SHEET NUMBER

TITLE

EE-1

NOTES, LEGEND, ABBREVIATIONS,
AND INDEX OF BACKHAUL COMMUNICATIONS PLANS

EE-2 TO EE-16

BACKHAUL COMMUNICATIONS DETAILS
(CONDUIT RE-ROUTING DETAILS)

EE-17

BACKHAUL COMMUNICATIONS DETAILS
(FIBER OPTIC PULL BOX)

EE-18

BACKHAUL COMMUNICATIONS DETAILS
(FIBER OPTIC MARKER)

EE-19

BACKHAUL COMMUNICATIONS DETAILS
(LOOP DETECTOR PLACEMENT DETAIL)

EE-20

BACKHAUL COMMUNICATIONS DETAILS
(STEEL PLATE DETAIL)

EE-21

BACKHAUL COMMUNICATIONS DETAILS
(TRUNKLINE MODIFICATION)

EE-22

BACKHAUL COMMUNICATIONS QUANTITIES

1

LEGEND:

1

Exist 3"C, 1-72 STR SMFO CABLE.

2

INSTALL 3"C, PT.

3

INSTALL 3-3"C, PT, 2#4 (120 V TOS POWER).

4

Exist 3-3"C, PT, 2#4 (120 V TOS POWER).

5

RC

Exist No. 6 PULL BOX AND INSTALL FIBER OPTIC PULL BOX WITH EXTENSIONS AND MODIFY EXISTING CONDUIT RUNS AS REQUIRED FOR FIBER OPTIC INSTALLATION. SEE DETAIL A ON SHEET E-21.

6

SPLICE NEW LOOP WIRES TO Exist 4 dlc.

7

SEE LOOP DETECTOR PLACEMENT DETAIL ON SHEET E-19.

8

INSTALL 3"C AND

CC

 TO Exist 3"C. TERMINATE CONDUIT IN NEW No. 6 PULL BOX. SPLICE Exist dlc IN CONDUIT RUNS TO NEW DLC IN NEW NO. 6 PULL BOX AS INDICATED ON THE PLANS.

9

SPLICE Exist 2#4 CONDUCTORS TO NEW 2#4 CONDUCTORS IN PULL BOX.

10

INSTALL CONDUIT VIA HORIZONTAL DIRECTIONAL DRILL METHOD.

11

INSTALL 3" C STUB-UP TO LOOPS.

12

Exist 3"C, PT.

13

Exist 3"C, 1-12 STR SMFO CABLE.

14

Exist 3"C, 2-72 STR SMFO CABLE.

**NOTES, LEGEND,
ABBREVIATIONS, AND
INDEX OF BACKHAUL COMMUNICATION PLANS**

EE - 1

Dist

COUNTY

ROUTE

POST MILES
TOTAL PROJECT

SHEET
No.

TOTAL
SHEETS

4

Ala,CC

680

R20.1/R21.9,
R0.0/14.0

566A

617

REGISTERED CIVIL ENGINEER

5-13-15

DATE

5-15-15

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER

RAMSEY
J. HISSEN

No. C39608

Exp. 12-31-15

CIVIL

STATE OF CALIFORNIA

URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

BORDER LAST REVISED 7/2/2010

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DGN FILE => ...\\0414000489Ua106.add1.dgn

RELATIVE BORDER SCALE
IS IN INCHES

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1

2

3

UNIT 0750

PROJECT NUMBER & PHASE

04140004891

DATE PLOTTED =>5/17/2015
4-08-15

TIME PLOTTED => 1:35:58 PM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

EE-Caltans

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-DESIGNED BY

CHECKED BY

JOEY PASKEY

KEVIN AGUIGUI

REVISOR

DATE

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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5-13-15
REGISTERED CIVIL ENGINEER DATE

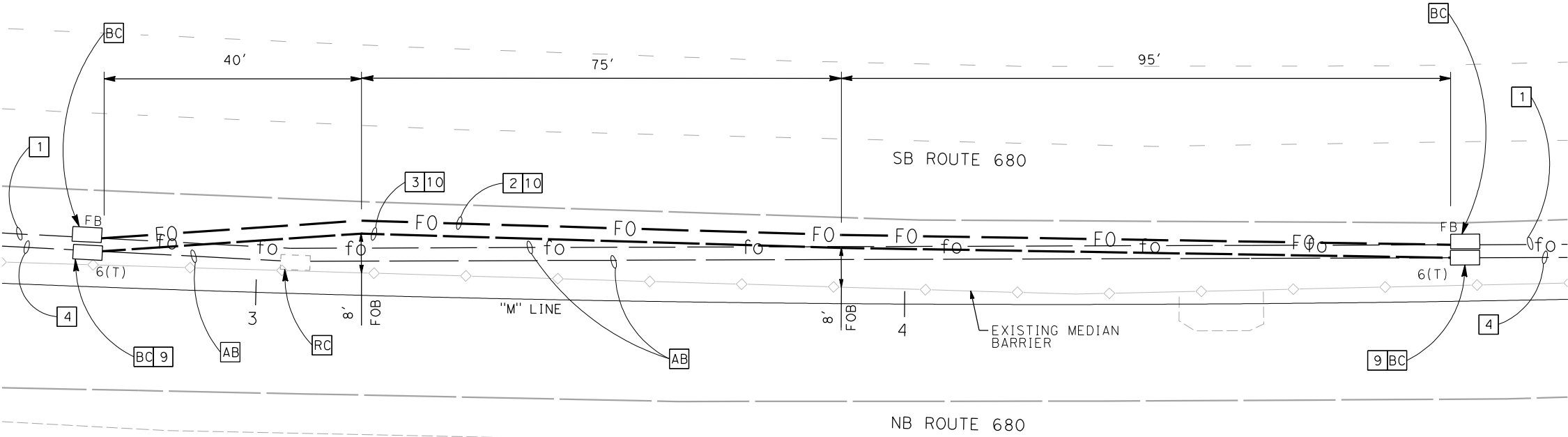
5-15-15
PLANS APPROVAL DATE

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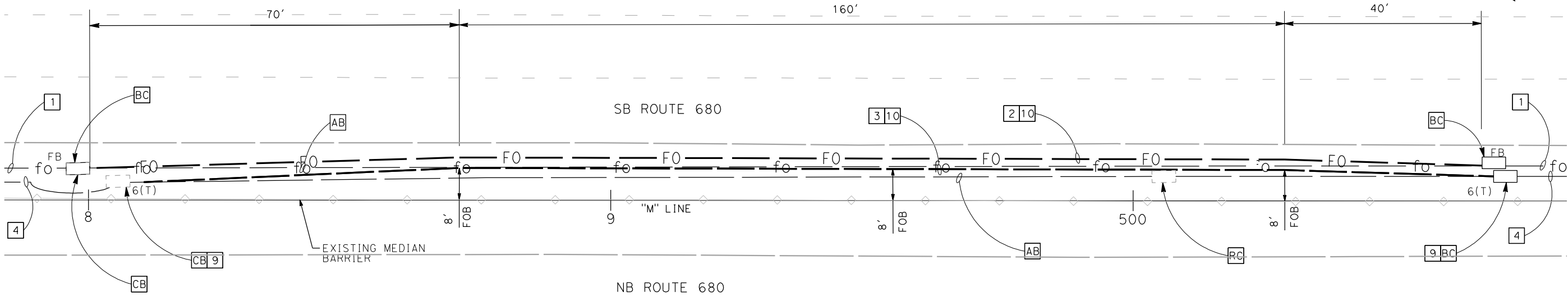
URS CORPORATION
100 W. SAN FERNANDO ST
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE FINANCING AUTHORITY
101 EIGHTH ST, 3rd Floor
OAKLAND, CA 94607

REGISTERED PROFESSIONAL ENGINEER
RAMSEY J. HISSEN
No. C39608
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA



DETAIL 1
"M" 482+36 TO 485+06
(SEE SHEET E-35)



NOTES:

- INSTALL PULL BOXES IMMEDIATELY ADJACENT TO BARRIER.
- BORE PITS SHALL BE USED AT LOCATIONS OF NEW PULL BOXES AND BACKFILLED AS SHOWN ON SHEET EE-17. WHEN CONTRACTOR CANNOT COMPLETE WORK WITHIN EVENING CLOSURE, BORE PITS SHALL BE COVERED BY A STEEL PLATE AS SHOWN ON SHEET EE-20.

DETAIL 2
"M" 498+00 TO 500+67
(SEE SHEET E-36)

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET EE-1

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS
(CONDUIT RE-ROUTING DETAILS)

NO SCALE



EE-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	JOEY PASKEY	REVISOR	DATE
EE-3	RAMSEY HISSEN	CHECKED BY	KEVIN AGUIGUI	DATE	REVISOR

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	566C	617

5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
PLANS APPROVAL DATE

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100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
PLANS APPROVAL DATE

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FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
PLANS APPROVAL DATE

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URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

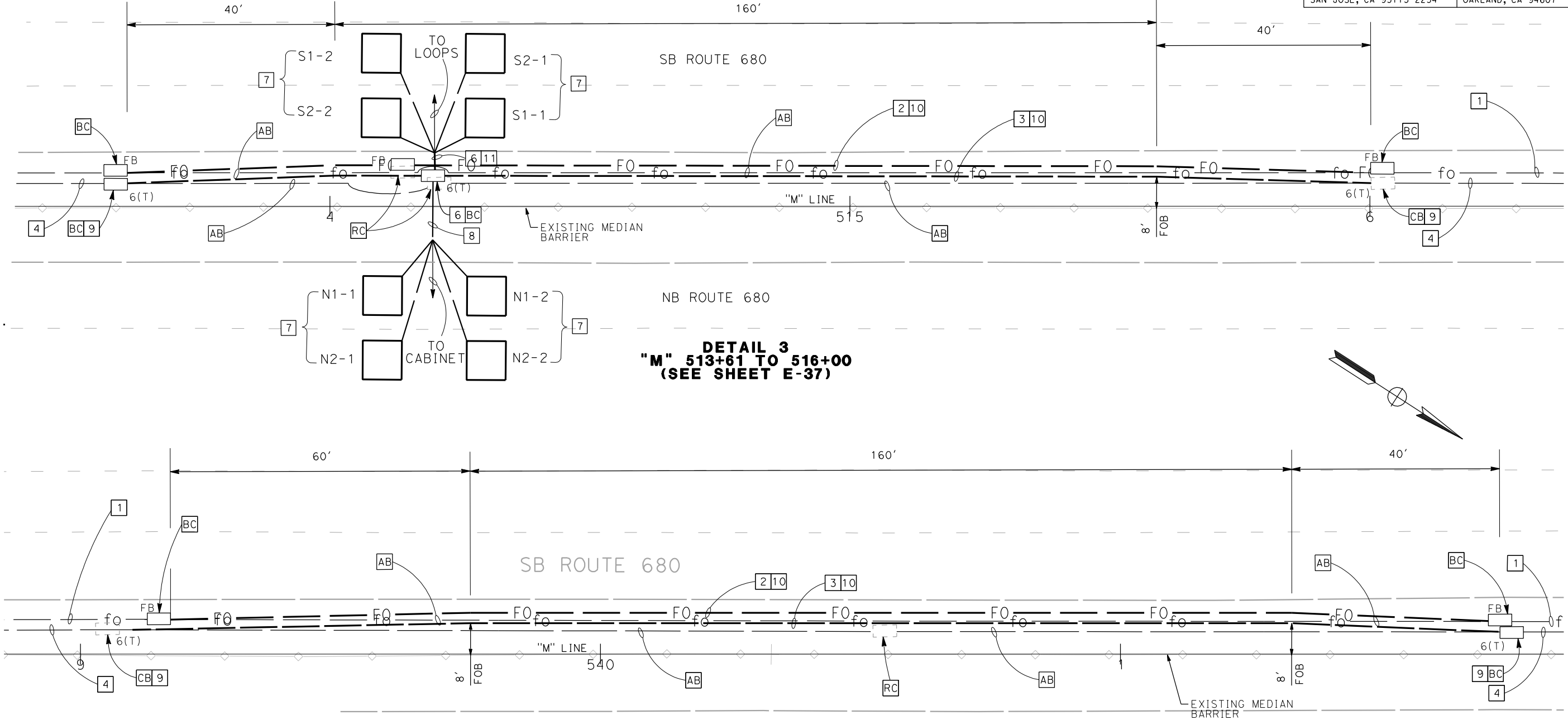
5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
PLANS APPROVAL DATE

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URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607



NOTES:

1. INSTALL PULL BOXES IMMEDIATELY ADJACENT TO BARRIER.
2. BORE PITS SHALL BE USED AT LOCATIONS OF NEW PULL BOXES AND BACKFILLED AS SHOWN ON SHEET EE-17. WHEN CONTRACTOR CANNOT COMPLETE WORK WITHIN EVENING CLOSURE, BORE PITS SHALL BE COVERED BY A STEEL PLATE AS SHOWN ON SHEET EE-20.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET EE-1

DETAIL 4
"M" 539+17 TO 541+73
(SEE SHEET E-39)

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS
(CONDUIT RE-ROUTING DETAILS)

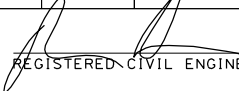
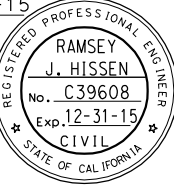
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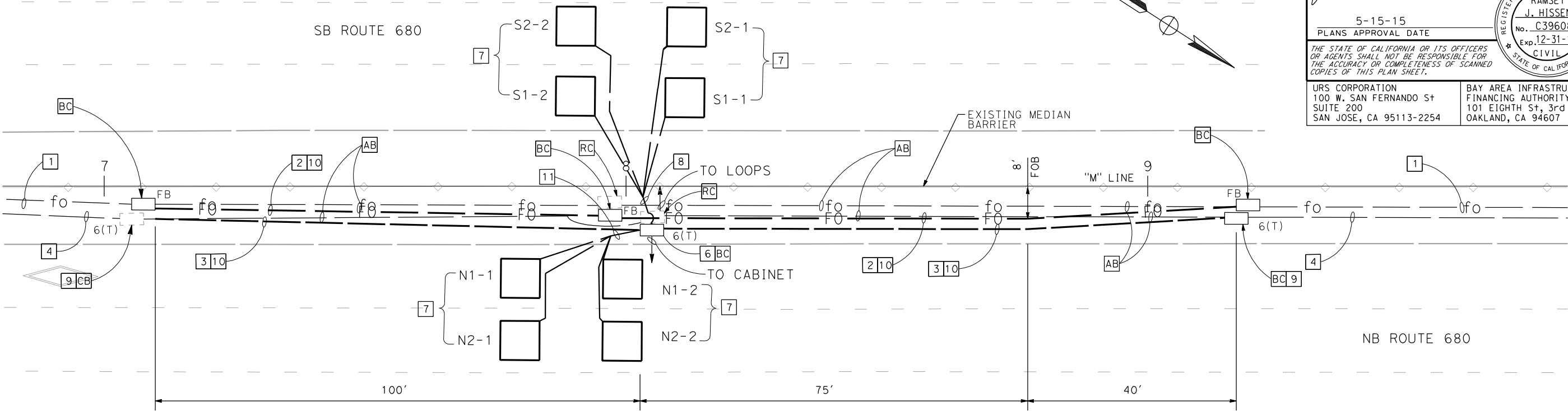
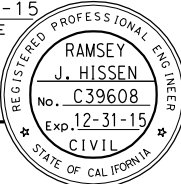


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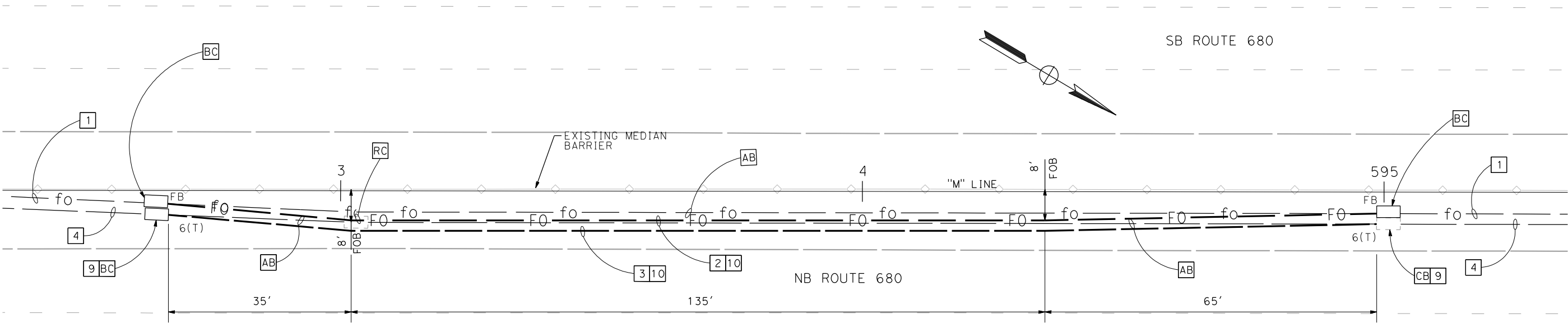
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR		JOEY PASKEY	REVISED BY	.
	RAMSEY HISSEN				
EE® Caltrans®	CHECKED BY		KEVIN AGUIGUI	DATE	REVISED

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	566D	617
 REGISTERED CIVIL ENGINEER			5-13-15 DATE		
5-15-15					
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



DETAIL 5
"M" 547+10 TO 549+17
(SEE SHEET E-39)



NOTES:

1. INSTALL PULL BOXES IMMEDIATELY ADJACENT TO BARRIER.
2. BORE PITS SHALL BE USED AT LOCATIONS OF NEW PULL BOXES AND BACKFILLED AS SHOWN ON SHEET EE-17. WHEN CONTRACTOR CANNOT COMPLETE WORK WITHIN EVENING CLOSURE, BORE PITS SHALL BE COVERED BY A STEEL PLATE AS SHOWN ON SHEET EE-20.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET EE-1

DETAIL 6
"M" 592+67 TO 594+99
(SEE SHEET E-43)

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS
(CONDUIT RE-ROUTING DETAILS)

NO SCALE



EE-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

EE-Caltans

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-DESIGNED BY

CHECKED BY

JOEY PASKEY

KEVIN AGUIGUI

REVISED BY

DATE REVISED

1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	566E	617

5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
PLANS APPROVAL DATE

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URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
PLANS APPROVAL DATE

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URS CORPORATION
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BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
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URS CORPORATION
100 W. SAN FERNANDO St
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SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

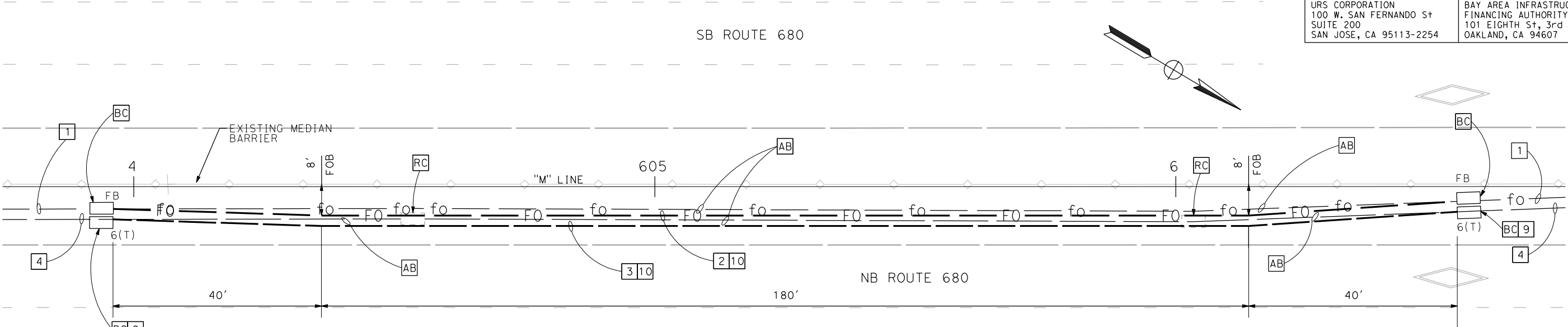
5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
PLANS APPROVAL DATE

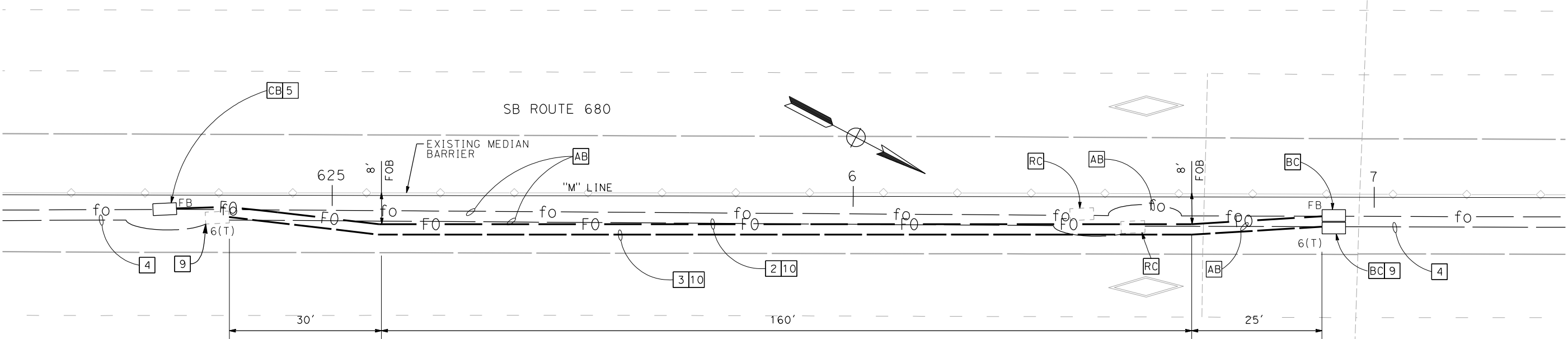
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SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607



DETAIL 7
"M" 603+96 TO 606+54
(SEE SHEET E-43)



NOTES:

- 1.INSTALL PULL BOXES IMMEDIATELY ADJACENT TO BARRIER.
- 2.BORE PITS SHALL BE USED AT LOCATIONS OF NEW PULL BOXES AND BACKFILLED AS SHOWN ON SHEET EE-17. WHEN CONTRACTOR CANNOT COMPLETE WORK WITHIN EVENING CLOSURE, BORE PITS SHALL BE COVERED BY A STEEL PLATE AS SHOWN ON SHEET EE-20.

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEET EE-1

DETAIL 8
"M" 624+80 TO 626+90
(SEE SHEET E-45)

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS
(CONDUIT RE-ROUTING DETAILS)

NO SCALE



EE-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	566F	617

5-13-15
 REGISTERED CIVIL ENGINEER DATE

5-15-15
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF SCANNED
 COPIES OF THIS PLAN SHEET.

URS CORPORATION
100 W. SAN FERNANDO ST
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH ST, 3rd Floor
OAKLAND, CA 94607



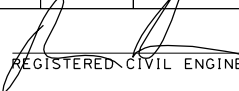
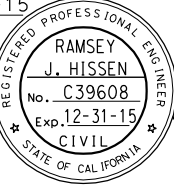
EE - 6

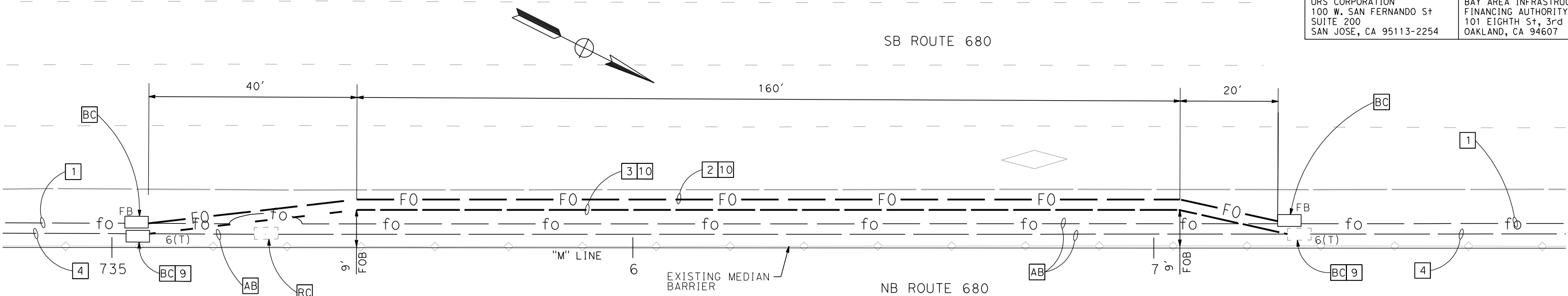
FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEET EE-1

APPROVED FOR ELECTRICAL WORK ONLY

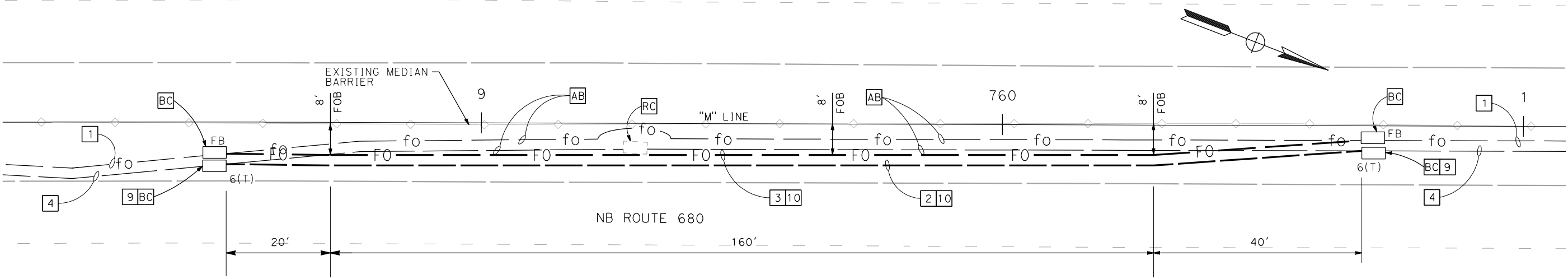
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	JOEY PASKEY	REVISOR	DATE
EE-7	RAMSEY HISSEN	CHECKED BY	KEVIN AGUIGUI	REVISOR	DATE

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	566G	617
 REGISTERED CIVIL ENGINEER			5-13-15 DATE		
5-15-15			PLANS APPROVAL DATE		
<p>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</p>					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



DETAIL 11
"M" 735+07 TO 737+26
(SEE SHEET E-53)



NOTES:

1. INSTALL PULL BOXES IMMEDIATELY ADJACENT TO BARRIER.
2. BORE PITS SHALL BE USED AT LOCATIONS OF NEW PULL BOXES AND BACKFILLED AS SHOWN ON SHEET EE-17. WHEN CONTRACTOR CANNOT COMPLETE WORK WITHIN EVENING CLOSURE, BORE PITS SHALL BE COVERED BY A STEEL PLATE AS SHOWN ON SHEET EE-20.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET EE-1

DETAIL 12
"M" 758+51 TO 760+69
(SEE SHEETS E-54 & E-55)

BACKHAUL COMMUNICATIONS
(CONDUIT RE-ROUTING DETAILS)

NO SCALE


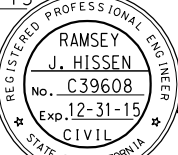
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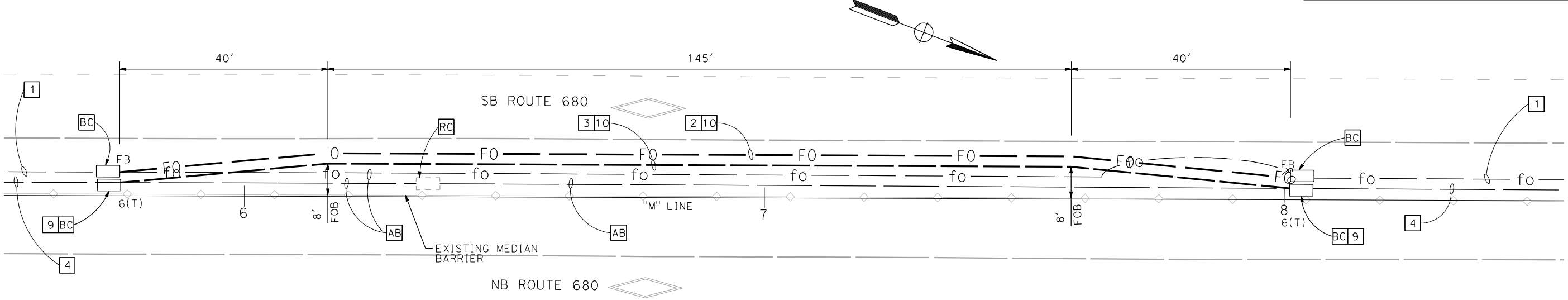
EE-7

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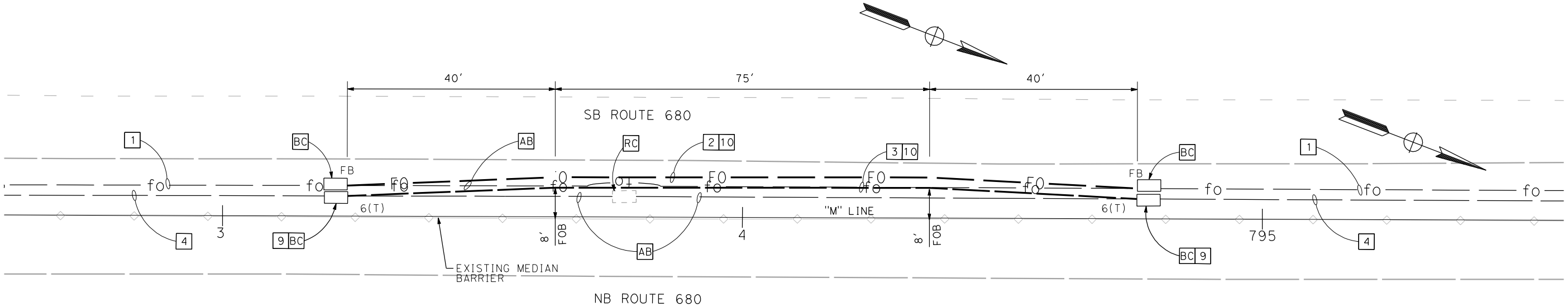
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	JOEY PASKEY	REVISOR	DATE
EE-8	RAMSEY HISSEN	CHECKED BY	KEVIN AGUIGUI	DATE	REVISOR

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	566H	617
 REGISTERED CIVIL ENGINEER			5-13-15 DATE		
5-15-15					
PLANS APPROVAL DATE					
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URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



DETAIL 13
"M" 785+76 TO 788+01
(SEE SHEETS E-56 & E-57)



DETAIL 14
"M" 793+24 TO 794+76
(SEE SHEET E-57)

NOTES:

1. INSTALL PULL BOXES IMMEDIATELY ADJACENT TO BARRIER.
2. BORE PITS SHALL BE USED AT LOCATIONS OF NEW PULL BOXES AND BACKFILLED AS SHOWN ON SHEET EE-17. WHEN CONTRACTOR CANNOT COMPLETE WORK WITHIN EVENING CLOSURE, BORE PITS SHALL BE COVERED BY A STEEL PLATE AS SHOWN ON SHEET EE-20.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET EE-1

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS
(CONDUIT RE-ROUTING DETAILS)

NO SCALE

1

EE-8

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	5661	617

5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
PLANS APPROVAL DATE

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URS CORPORATION
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FINANCING AUTHORITY
101 EIGHTH ST, 3rd Floor
OAKLAND, CA 94607

5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
PLANS APPROVAL DATE

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URS CORPORATION
100 W. SAN FERNANDO ST
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH ST, 3rd Floor
OAKLAND, CA 94607

5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
PLANS APPROVAL DATE

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URS CORPORATION
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SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
FINANCING AUTHORITY
101 EIGHTH ST, 3rd Floor
OAKLAND, CA 94607

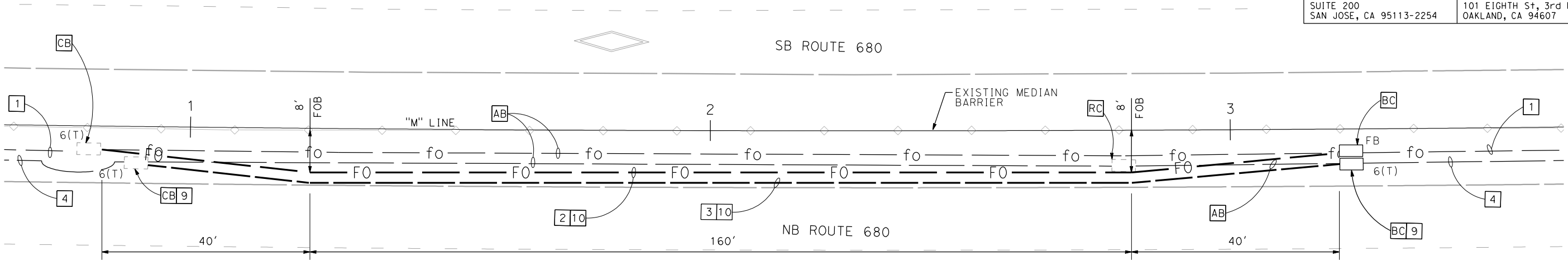
5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
PLANS APPROVAL DATE

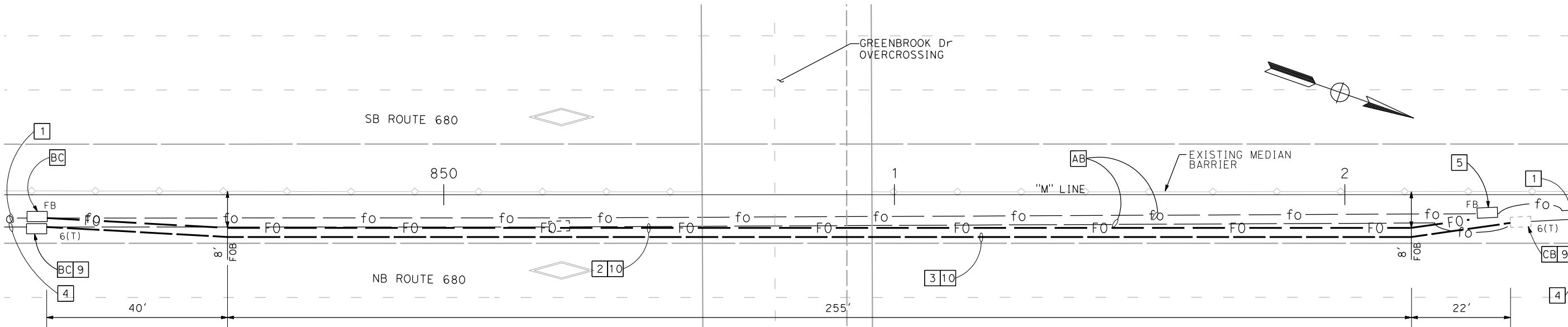
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COPIES OF THIS PLAN SHEET.

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SAN JOSE, CA 95113-2254

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FINANCING AUTHORITY
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OAKLAND, CA 94607



DETAIL 15
"M" 810+83 TO 813+21
(SEE SHEET E-58)



DETAIL 16
"M" 849+12 TO 852+37
(SEE SHEET E-61)

BACKHAUL COMMUNICATIONS
(CONDUIT RE-ROUTING DETAILS)
NO SCALE

1
EE-9

NOTES:

1. INSTALL PULL BOXES IMMEDIATELY ADJACENT TO BARRIER.
2. BORE PITS SHALL BE USED AT LOCATIONS OF NEW PULL BOXES AND BACKFILLED AS SHOWN ON SHEET EE-17. WHEN CONTRACTOR CANNOT COMPLETE WORK WITHIN EVENING CLOSURE, BORE PITS SHALL BE COVERED BY A STEEL PLATE AS SHOWN ON SHEET EE-20.

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEET EE-1


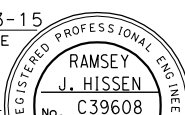
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

EE-9

REVISIONS

DATE PLOTTED => 5/17/2015
TIME PLOTTED => 1:36:42 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Ala, CC	680	R20.1/R21.9, R0.0/14.0	566J	617
 REGISTERED CIVIL ENGINEER			5-13-15 DATE		
5-15-15 PLANS APPROVAL DATE					
<p>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</p>					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		




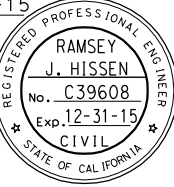
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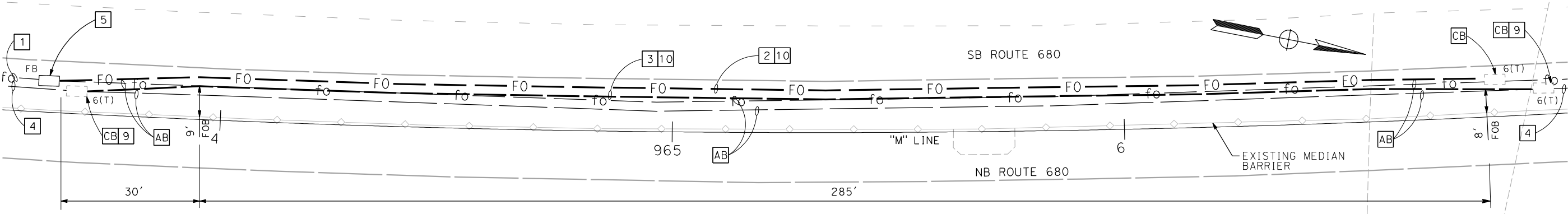
FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEET EE-1

EE-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	JOEY PASKEY	REVISOR	DATE
EE-11	RAMSEY HISEN	CHECKED BY	KEVIN AGUIGUI	DATE	REVISOR

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	566K	617
 REGISTERED CIVIL ENGINEER			5-13-15 DATE		
5-15-15 PLANS APPROVAL DATE					
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URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR		REVISOR	DATE
	RAMSEY HISSEN			
	CALCULATED-DESIGNED BY			
	CHECKED BY			
Caltrans®	JOEY PASKEY		REVISOR	DATE
	KEVIN AGUIGUI			
	REVISOR			
	DATE			

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	566L	617

5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
PLANS APPROVAL DATE

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URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

5-13-15
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OAKLAND, CA 94607

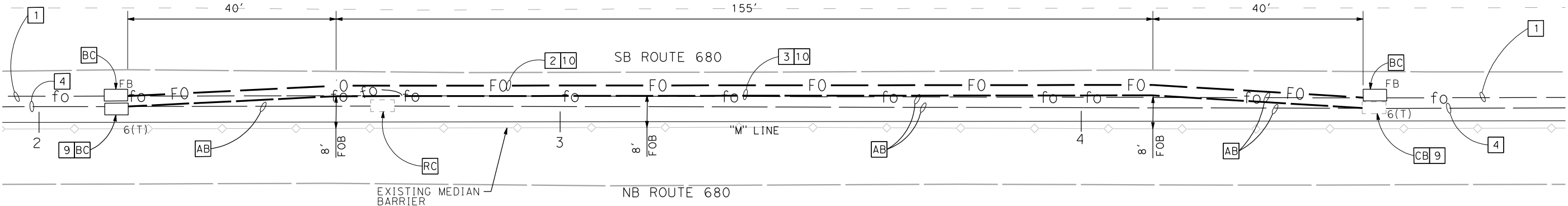
5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
PLANS APPROVAL DATE

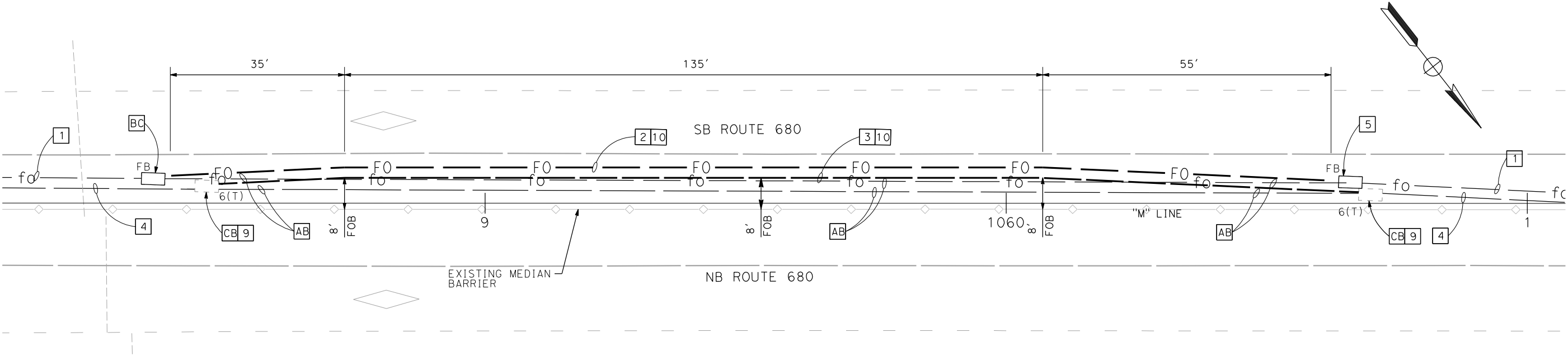
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URS CORPORATION
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OAKLAND, CA 94607



DETAIL 21
"M" 1012+17 TO 1014+54
(SEE SHEET E-73)



NOTES:

1. INSTALL PULL BOXES IMMEDIATELY ADJACENT TO BARRIER.
2. BORE PITS SHALL BE USED AT LOCATIONS OF NEW PULL BOXES AND BACKFILLED AS SHOWN ON SHEET EE-17. WHEN CONTRACTOR CANNOT COMPLETE WORK WITHIN EVENING CLOSURE, BORE PITS SHALL BE COVERED BY A STEEL PLATE AS SHOWN ON SHEET EE-20.

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEET EE-1

DETAIL 22
"M" 1058+39 TO 1060+68
(SEE SHEET E-77)

APPROVED FOR ELECTRICAL WORK ONLY


BACKHAUL COMMUNICATIONS
(CONDUIT RE-ROUTING DETAILS)

NO SCALE



EE-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR		CALCULATED- DESIGNED BY	JOEY PASKEY	REVISED BY	DATE REVISED
	RAMSEY HISSEN					



1

REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	566M	617

5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
PLANS APPROVAL DATE

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URS CORPORATION
100 W. SAN FERNANDO ST
SUITE 200
SAN JOSE, CA 95113-2254

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FINANCING AUTHORITY
101 EIGHTH ST, 3rd Floor
OAKLAND, CA 94607

5-13-15
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DATE

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SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE
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101 EIGHTH ST, 3rd Floor
OAKLAND, CA 94607

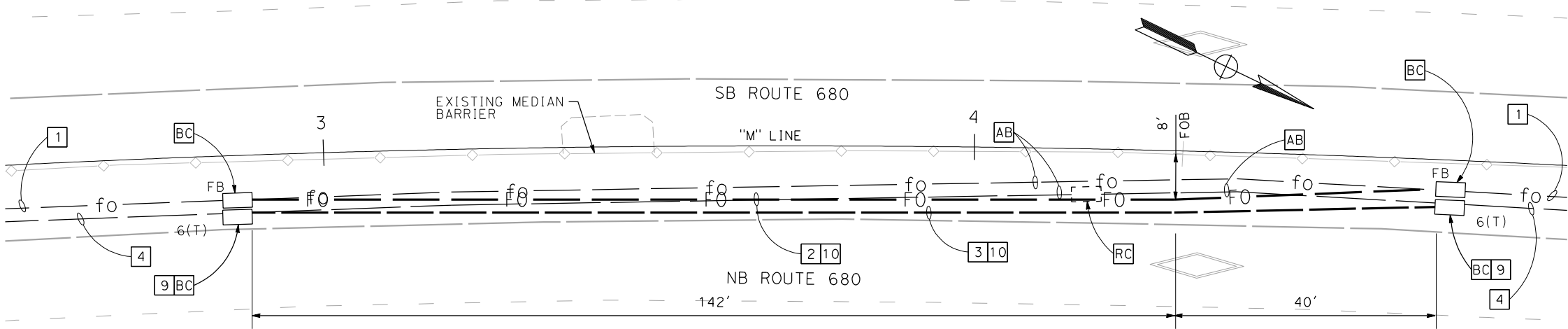
5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
PLANS APPROVAL DATE

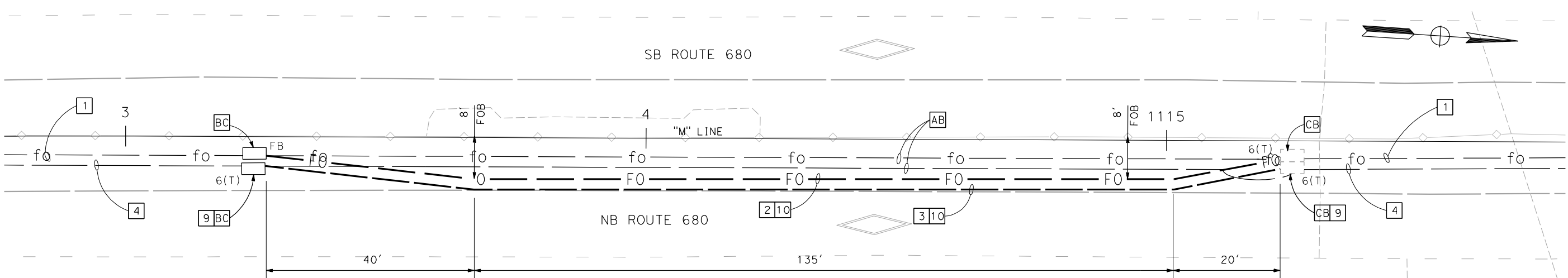
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URS CORPORATION
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FINANCING AUTHORITY
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OAKLAND, CA 94607



DETAIL 23
"M" 1102+89 TO 1104+71
(SEE SHEET E-80)



DETAIL 24
"M" 1113+27 TO 1115+22
(SEE SHEET E-81)

NOTES:

- 1.INSTALL PULL BOXES IMMEDIATELY ADJACENT TO BARRIER.
- 2.BORE PITS SHALL BE USED AT LOCATIONS OF NEW PULL BOXES AND BACKFILLED AS SHOWN ON SHEET EE-17. WHEN CONTRACTOR CANNOT COMPLETE WORK WITHIN EVENING CLOSURE, BORE PITS SHALL BE COVERED BY A STEEL PLATE AS SHOWN ON SHEET EE-20.

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEET EE-1

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS
(CONDUIT RE-ROUTING DETAILS)

NO SCALE



EE-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	JOEY PASKEY	REVISOR	DATE
EE-14	RAMSEY HISSEN	CHECKED BY	KEVIN AGUIGUI	DATE	REVISOR

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	566N	617

5-13-15
REGISTERED CIVIL ENGINEER
DATE

5-15-15
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OAKLAND, CA 94607

5-13-15
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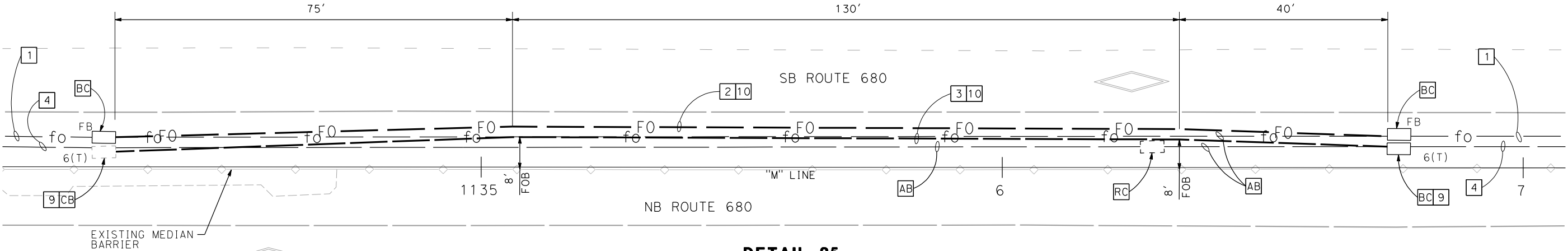
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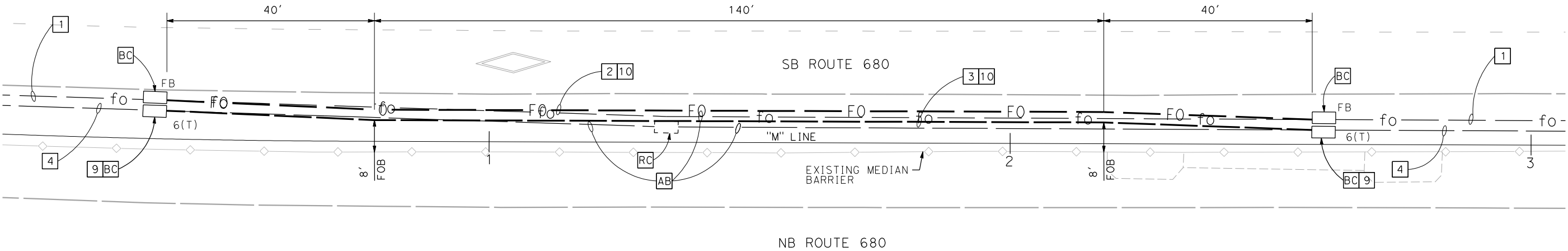
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OAKLAND, CA 94607



DETAIL 25
"M" 1134+30 TO 1136+74
(SEE SHEET E-82)



DETAIL 26
"M" 1160+38 TO 1162+58
(SEE SHEET E-84)

NOTES:

1. INSTALL PULL BOXES IMMEDIATELY ADJACENT TO BARRIER.
2. BORE PITS SHALL BE USED AT LOCATIONS OF NEW PULL BOXES AND BACKFILLED AS SHOWN ON SHEET EE-17. WHEN CONTRACTOR CANNOT COMPLETE WORK WITHIN EVENING CLOSURE, BORE PITS SHALL BE COVERED BY A STEEL PLATE AS SHOWN ON SHEET EE-20.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET EE-1

APPROVED FOR ELECTRICAL WORK ONLY

BACKHAUL COMMUNICATIONS
(CONDUIT RE-ROUTING DETAILS)

NO SCALE

EE-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

EE-15

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REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

SB ROUTE 680

NB ROUTE 680

EXISTING MEDIAN BARRIER

"M" LINE

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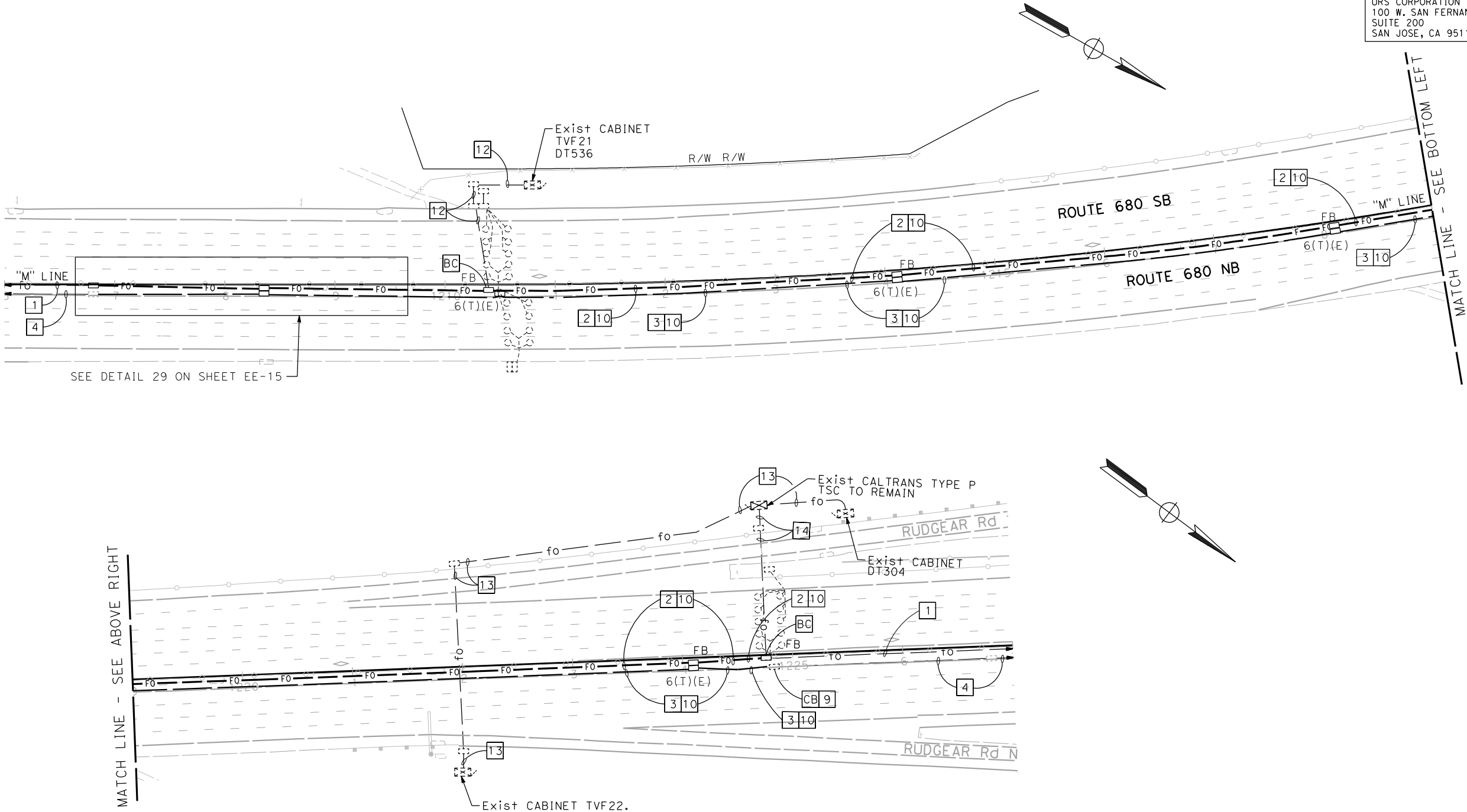
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	JOEY PASKEY	REVISOR	DATE
RAMSEY HISSEN	DESIGNED BY	JOEY PASKEY	REVISOR	DATE	

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	566P	617
REGISTERED CIVIL ENGINEER			5-13-15 DATE		
5-15-15 PLANS APPROVAL DATE			RAMSEY J. HISSEN No. C39608 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		



BACKHAUL COMMUNICATIONS
(CONDUIT RE-ROUTING DETAILS)
NO SCALE

1

EE-16

FOR NOTES, ABBREVIATIONS AND
LEGEND, SEE SHEET EE-1

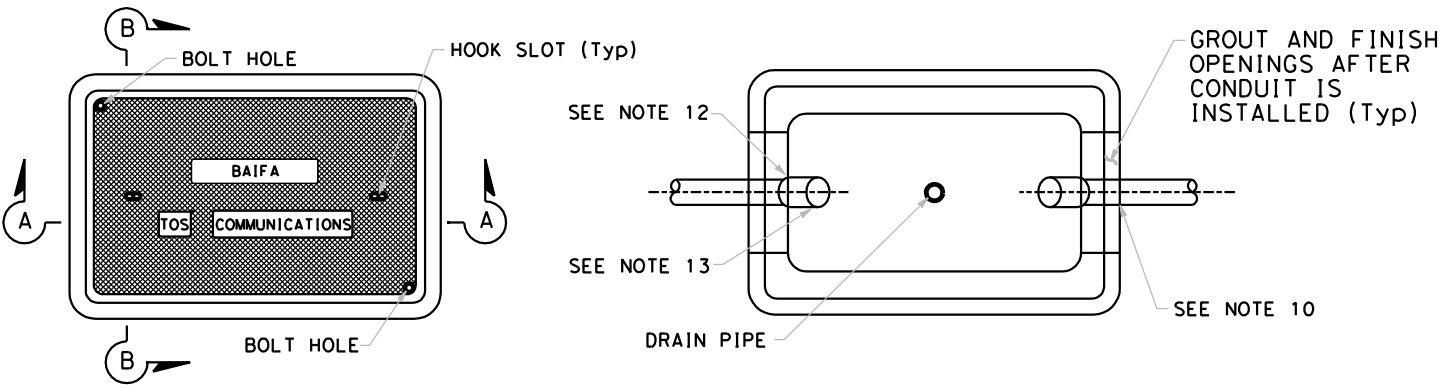
APPROVED FOR ELECTRICAL WORK ONLY

NOTES: (THIS SHEET ONLY)

1. CONCRETE SHOULD BE PLACED AROUND AND UNDER PULL BOXES (6" MINIMUM) AND SHOULD CONTAIN A MINIMUM OF 550 lbs OF PORTLAND CEMENT PER CUBIC YARD.
2. PORTLAND CEMENT CONCRETE FLOOR OVER CLEAN CRUSHED ROCK SUMP. BOTTOM OF PULL BOX SHALL BE SLOPED TOWARD DRAIN PIPE FOR DRAINAGE AND SHALL HAVE SMOOTH FINISH.
3. PULL BOX SHALL BE PRECAST OF STEEL REINFORCED PORTLAND CEMENT CONCRETE. PULL BOX COVER SHALL BE POLYMER CONCRETE. PULL BOX AND COVER SHALL SUPPORT MINIMUM TEST LOAD OF 25,000 lbs IF BOX IS LOCATED IN PAVED AREAS, PULL BOX AND COVER SHALL CONFORM VERTICAL PROOF-LOAD STRENGTH REQUIREMENT AS PER CALTRANS STANDARD SPECIFICATIONS, SECTION 86-2.06.
4. IF APPLICABLE, PULL BOX HEIGHT ABOVE EXISTING DIRT GRADE SHALL PERMIT 1" OF FUTURE SURFACE LANDSCAPING. WHEN PULL BOX IS INSTALLED IN EXISTING SIDEWALK, PULL BOX COVER SHALL SIT FLUSH WITH THE PAVEMENT.
5. LOCKING MECHANISM SHALL BE PROVIDED FOR COVER. TWO $\frac{3}{8}$ " DIAMETER BRASS OR STAINLESS STEEL STUB BOLTS, NUTS, AND WASHERS. 2 PER BOX, RECESS IN COVER FOR NUT.
6. "BAIFA TOS COMMUNICATIONS" SHALL BE CASTED ON THE TOP FACE OF ALL NEW PULL BOX COVERS OF NEW FO PULL BOXES.
7. MINIMUM PULL BOX DEPTH WITH EXTENSION SHALL BE 24".
8. SEE PLAN SHEETS FOR NUMBER AND SIZE OF CONDUIT.
9. ALL CONDUITS SHALL ENTER THROUGH KNOCKOUTS. IF MORE THAN 3 CONDUITS ARE REQUIRED IN SAME KNOCKOUT, KNOCKOUT SHALL BE WIDENED TO $\frac{3}{8}$ " MORE THAN THE COMBINED CONDUIT WIDTH.
0. CONDUIT FROM THE TYPICAL BORE OR TRENCH SECTION SHOULD NOT DEFLECT BY MORE THAN $1\frac{5}{32}$ PER 10" FROM THE ALIGNMENT PRECEDING OR THE FOLLOWING THE PULL BOX.
1. BOTTOM OF CONDUIT CENTERLINE SHALL BE ALIGNED TO EXIT TOP OF PULL BOX TO FACILITATE CABLE PULLING. IF EXISTING CONDUIT USED, CONTRACTOR SHALL MODIFY CONDUIT SWEEP (IF NEEDED) AS SHOWN. IF NEW CONDUIT USED, CONTRACTOR SHALL INSTALL CONDUIT ELBOW AS SHOWN.
2. EXCESS CONDUIT FOR ALL CONDUIT ENDS SHALL BE CUT BACK TO PROVIDE STUB ENDS OF 1" MINIMUM TO 2" MAXIMUM.
3. ALL METALLIC CONDUIT SHALL HAVE THREADED METALLIC BUSHINGS. ALL PVC AND HDPE CONDUITS SHALL HAVE BELL ENDS.
4. INSTALL CAPS OR DUCT PLUGS FOR ALL CONDUITS.
5. ALL CONDUITS AND PULL BOXES CONTAINING FIBER OPTIC CABLE SHALL HAVE PERMANENT MARKERS AS SHOWN ON DRAWING SHEET EE-18.

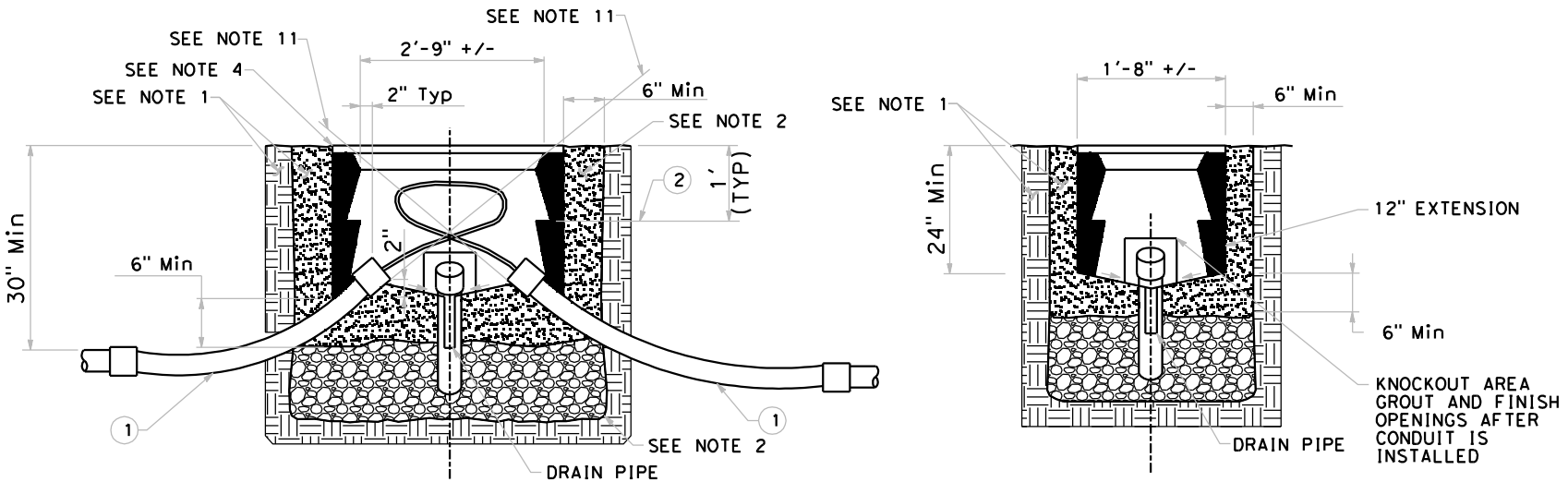
NOTES: (THIS SHEET ONLY)

- ① 45 DEGREE ELBOW, 3' RADIUS MIN ELBOW AND COUPLING MAY NOT BE NECESSARY FOR NEW CONDUIT INSTALLED BY DIRECTIONAL BORING. NEW CONDUIT INSTALLED BY DIRECTIONAL BORING SHALL ENTER THE PULL BOX WITH BENDING RADIUS OF 3' MIN.
- ② WARNING TAPE (FOR NEW CONDUIT IF INSTALLED BY TRENCHING).



PLAN VIEW

PLAN VIEW WITHOUT COVER



SECTION A-A


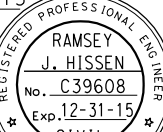
SECTION B-B

BACKHAUL COMMUNICATIONS

(FIBER OPTIC PULL BOX)

NO SCALE

EE-17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	566R	617
 REGISTERED CIVIL ENGINEER			5-13-15 DATE		
5-15-15 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		

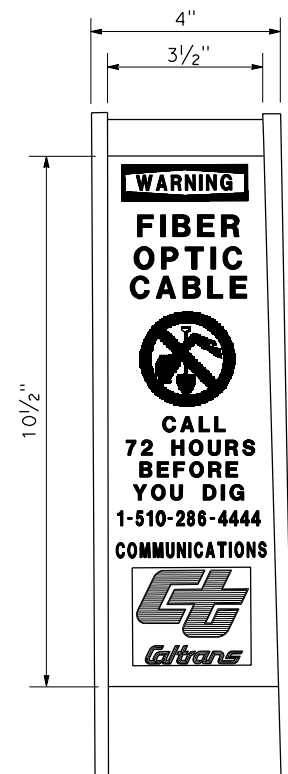


4"

WARNING
BURIED FIBER
OPTIC CABLE
CALL BEFORE YOU DIG
1-510-286-4444

CT
Cable Television

PERMANENT FIBER OPTIC
CABLE MARKER
PAVED AREAS



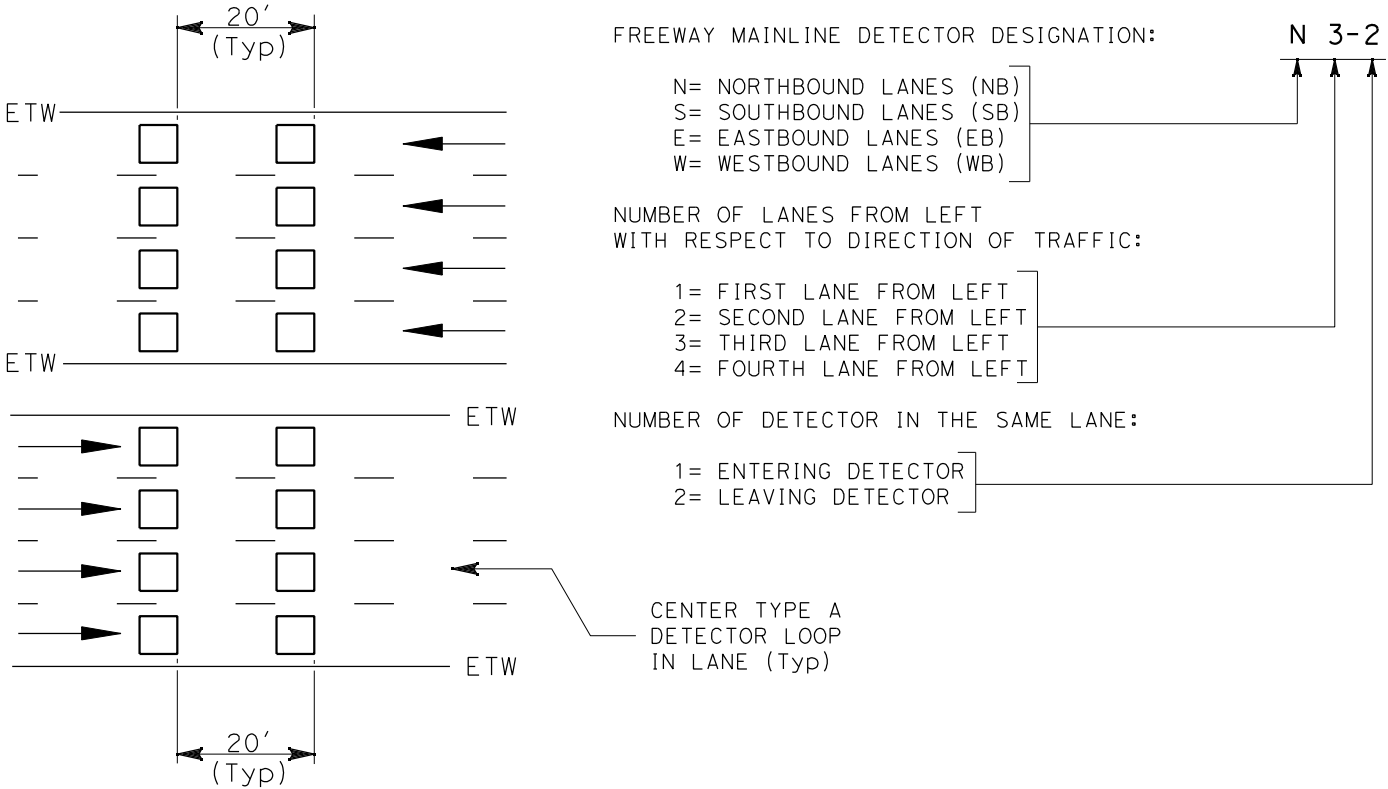
DETAIL A

**EE-18**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	JOEY PASKEY	REVISOR	DATE
ETG	RAMSEY HISSEN	CHECKED BY	KEVIN AGUIGUI	DATE	REVISOR

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	566S	617
REGISTERED CIVIL ENGINEER			5-13-15 DATE		
5-15-15 PLANS APPROVAL DATE			REGISTERED PROFESSIONAL ENGINEER RAMSEY J. HISSEN No. C39608 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA		
URS CORPORATION 100 W. SAN FERNANDO ST SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH ST, 3rd Floor OAKLAND, CA 94607		

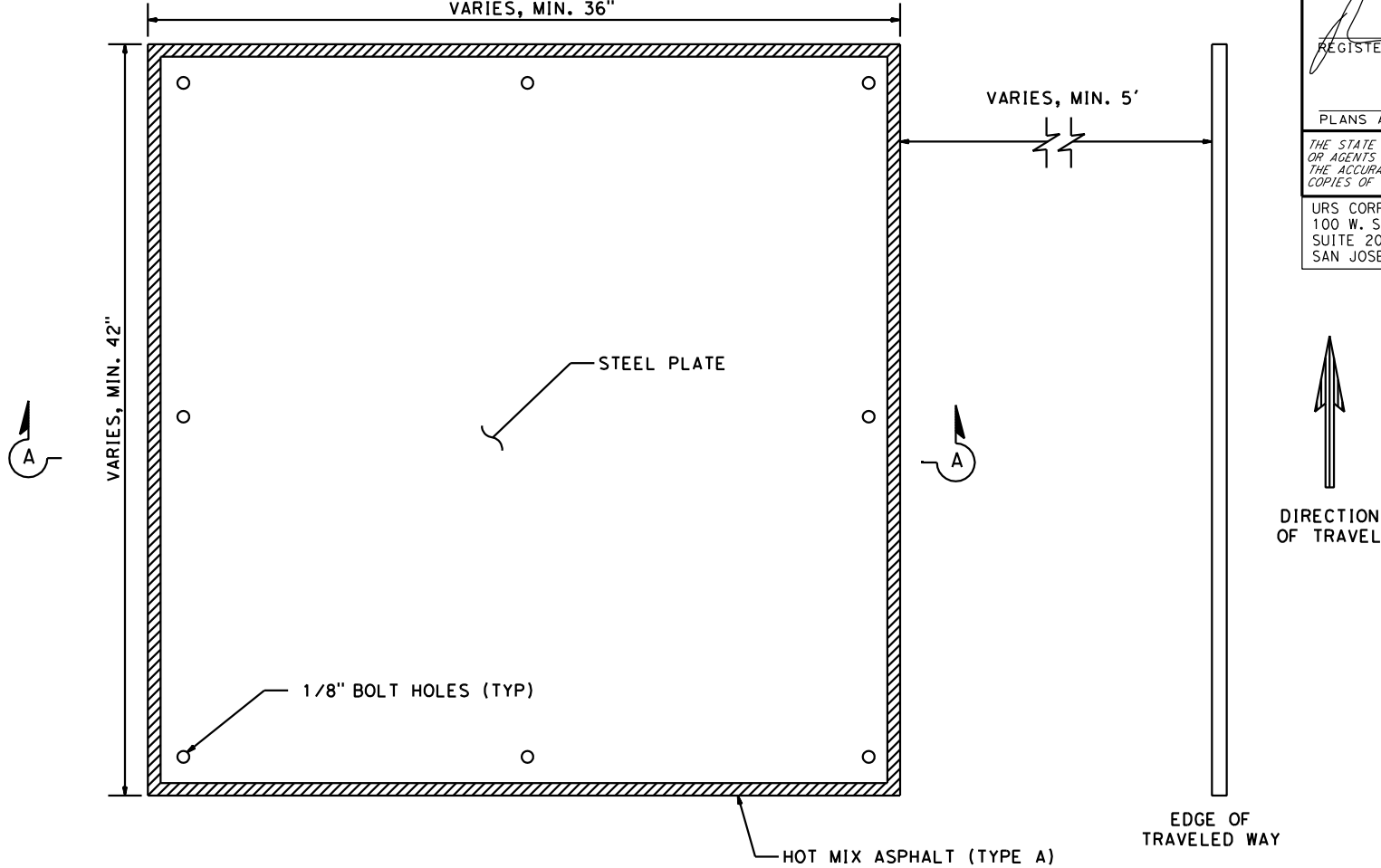


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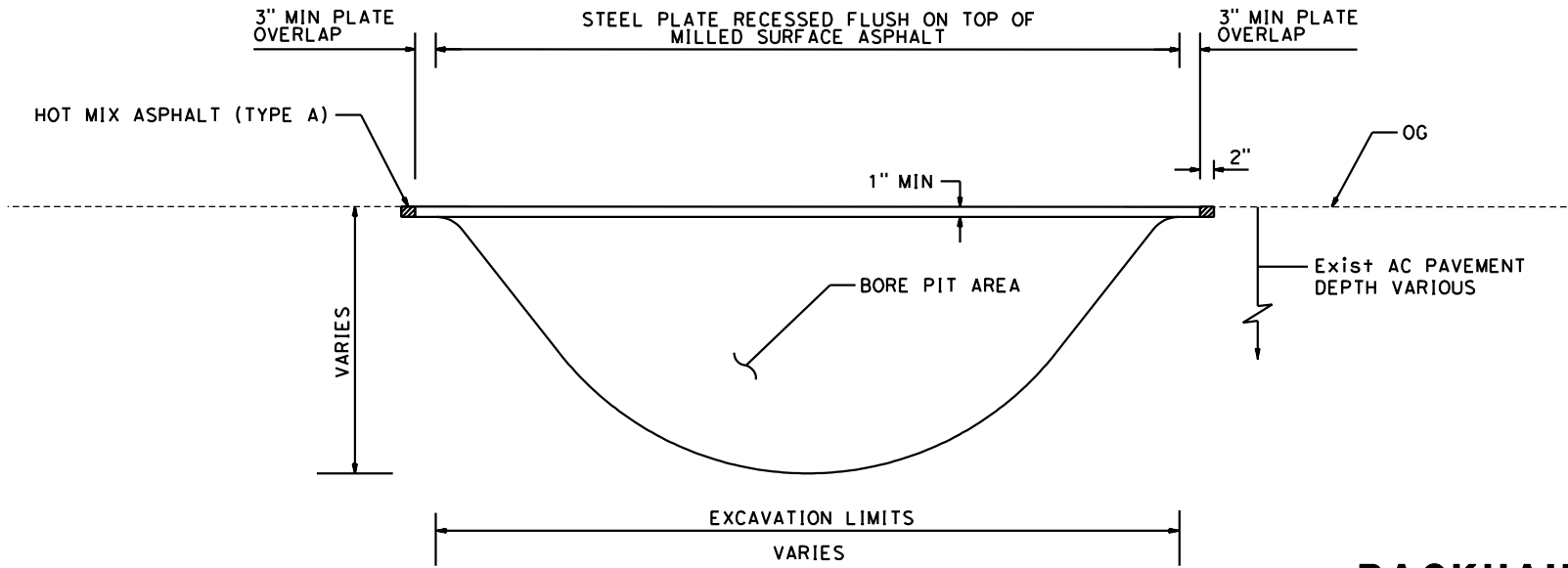
NOTES:

1. STEEL PLATE SHALL BE USED IN AREAS WHERE BACKFILLING OPERATIONS OF AN EXCAVATION IN THE SHOULDER CANNOT BE PROPERLY COMPLETED WITHIN THE SAME DAY.
2. STEEL PLATES SHALL BE RECESSED BY MILLING INTO THE EXISTING ASPHALT TO SET FLUSH WITH THE SURFACE OF THE EXISTING ASPHALT.
3. THE PAVEMENT SHALL BE CUT AND COLD PLANED TO A DEPTH EQUAL TO THE THICKNESS OF THE PLATE AND TO A WIDTH AND LENGTH EQUAL TO THE DIMENSIONS OF THE PLATE.
4. THE GAP BETWEEN THE EDGE OF THE PLATE AND THE ADJACENT EXISTING ASPHALT PAVEMENT MUST BE FILLED WITH HOT ASPHALT MIX (TYPE A).
5. WEDGES OR OTHER NON-ASPALTIC DEVICES SHALL BE USED FOR LEVELING AS REQUIRED TO ELIMINATE ROCKING OF THE PLATES.
6. COMPACTED TEMPORARY ASPHALT SHALL BE USED TO FILL ALL GAPS BETWEEN THE PLATES AND EXISTING PAVEMENT SURFACES.

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015




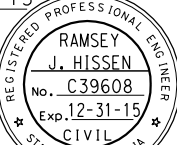
PLAN VIEW



SECTION A-A

BACKHAUL COMMUNICATIONS
(TEMPORARY STEEL PLATE)

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
4	Alameda	680	R20.1/R21.9, R0.0/14.0	566T	617
 REGISTERED CIVIL ENGINEER			5-13-15 DATE		
5-15-15					
PLANS APPROVAL DATE					
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URS CORPORATION 100 W. SAN FERNANDO St SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH St, 3rd Floor OAKLAND, CA 94607		

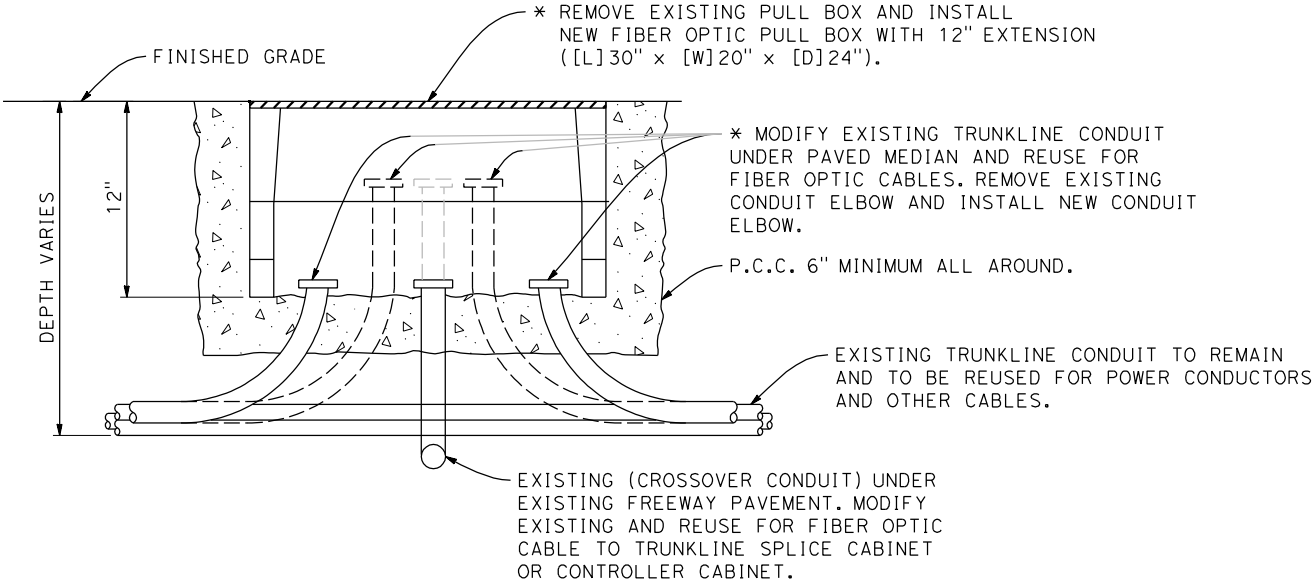
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LAST REVISION
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	CHECKED BY	JOEY PASKEY	REVISOR	DATE
ETG	RAMSEY HISSEN					

1

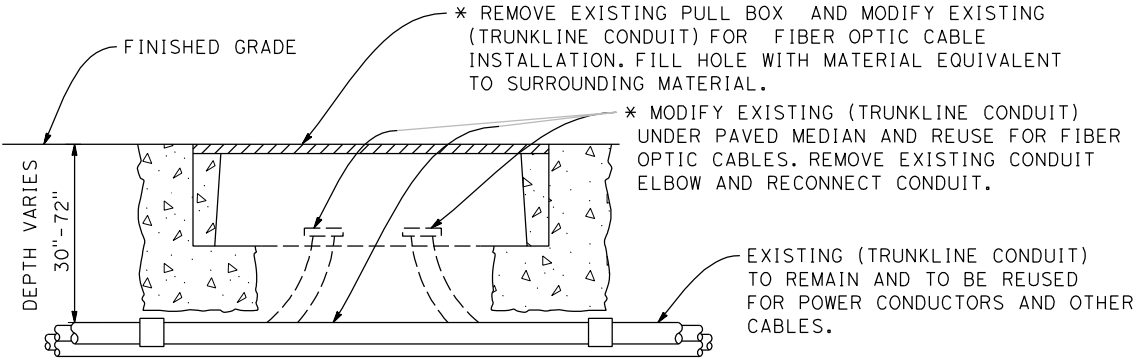
REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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URS CORPORATION 100 W. SAN FERNANDO St SUITE 200 SAN JOSE, CA 95113-2254			BAY AREA INFRASTRUCTURE FINANCING AUTHORITY 101 EIGHTH St, 3rd Floor OAKLAND, CA 94607		



* DO NOT DAMAGE EXISTING TRUNKLINE CONDUIT RUNS. ALL EXISTING TRUNKLINE CONDUIT RUNS WERE INSTALLED IN THE SAME TRENCH UNDER MEDIAN PAVEMENT. MODIFIED CONDUIT SHALL HAVE A MINIMUM CONDUIT BENDING RADIUS OF 20"

DETAIL A
TRUNKLINE TRAFFIC PULL BOX REPLACEMENT
TRUNKLINE AND CROSSOVER CONDUIT MODIFICATION



* DO NOT DAMAGE EXISTING TRUNKLINE CONDUIT RUNS. ALL EXISTING TRUNKLINE CONDUIT RUNS WERE INSTALLED IN THE SAME TRENCH UNDER MEDIAN PAVEMENT.

DETAIL B
TRUNKLINE CONDUIT MODIFICATION
TRUNKLINE PULL BOX REMOVAL

BACKHAUL COMMUNICATIONS
(PULL BOX MODIFICATION)

NO SCALE

EE-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

ET-Giltrans®

CONSULTANT FUNCTIONAL SUPERVISOR

RAMSEY HISSEN

CALCULATED-DESIGNED BY

CHECKED BY

JOEY PASKEY

KEVIN AGUIGUI

REVISED BY

DATE REVISED

1 REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

BACKHAUL COMMUNICATIONS SYSTEM QUANTITIES

SHEET No.	CONDUIT [N]	CONDUCTORS [N]	PULL BOXES[N]		DETECTOR LOOP [N]
	4-3"	#4	#6 (T)	FIBER OPTIC PULL BOX	
	LF	LF	EA	EA	EA
EE-2	471	938	3	4	
EE-3	496	996	3	5	8
EE-4	434	866	3	5	8
EE-5	471	936	3	4	
EE-6	572	1,146	5	6	
EE-7	442	886	3	4	
EE-8	386	772	4	4	
EE-9	556	1,100	2	3	
EE-10	546	1,092	3	4	
EE-11	525	1,046	2	3	
EE-12	457	910	1	4	
EE-13	379	758	3	3	
EE-14	467	934	3	4	
EE-15	810	1,620	4	6	
EE-16	1,396	2,796	4	5	
TOTAL	8,406	16,796	46	64	16

[N] NOT A SEPARATE ITEM, FOR INFORMATION ONLY

Dist

COUNTY

ROUTE

POST MILES TOTAL PROJECT

SHEET No.

TOTAL SHEETS

4

Alameda

680

R20.1/R21.9, R0.0/14.0

566V

617

REGISTERED CIVIL ENGINEER

5-13-15

DATE

5-15-15

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

URS CORPORATION
100 W. SAN FERNANDO St
SUITE 200
SAN JOSE, CA 95113-2254

BAY AREA INFRASTRUCTURE FINANCING AUTHORITY
101 EIGHTH St, 3rd Floor
OAKLAND, CA 94607

RAMSEY J. HISSEN

No. C39608

Exp. 12-31-15

CIVIL

STATE OF CALIFORNIA

BACKHAUL COMMUNICATIONS QUANTITIES
NO SCALE

EE-22



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala/CC	680	R20.1/21.9 R0.0/14.0	617A	617

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER

Gurinderpal Bhullar

No. C48815

Exp. 9-30-14

CIVIL

STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED _____

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING							
SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
For speed of 40 mph or less, $L = WS^2/60$
For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
W = Width of offset in feet
S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING			
ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES
FOR LANE AND RAMP CLOSURES

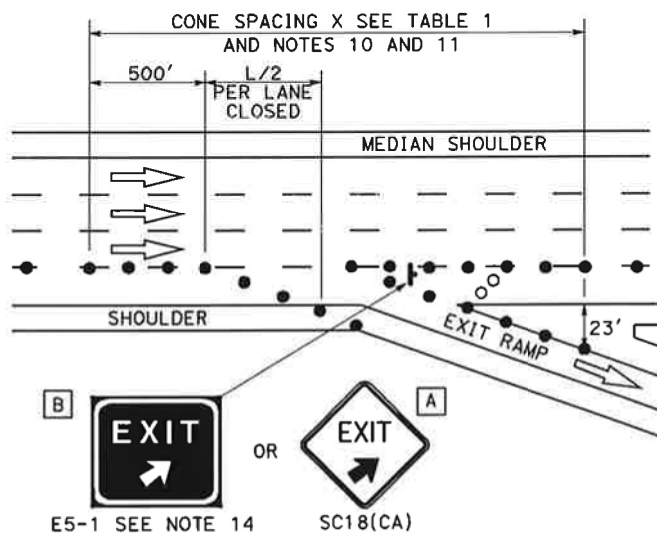
NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013
THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9



REVISED PER ADDENDUM No. 1 DATED MAY 18, 2015

12-18-12

12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT ____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

TO ACCOMPANY PLANS DATED _____

NOTES: See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

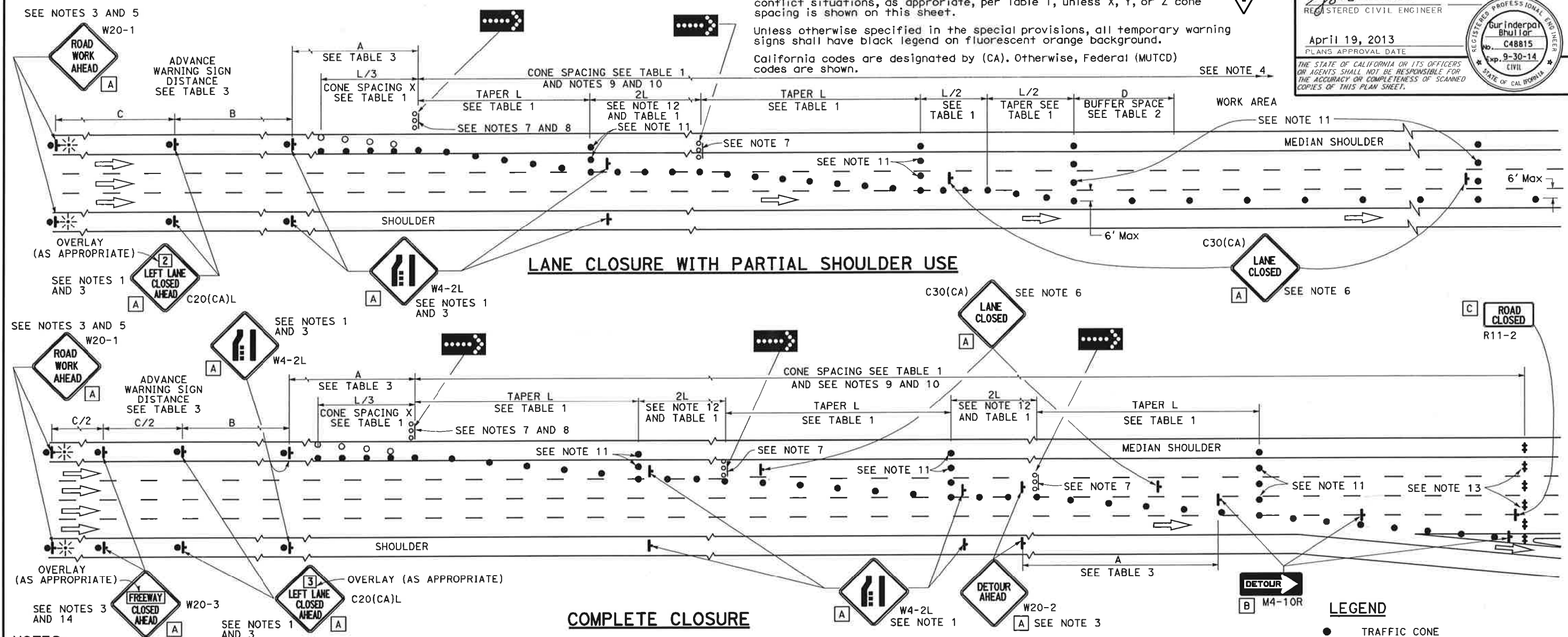
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala/CC	680	R20.1/21.9 R0.0/14.0	617C	617

April 19, 2013
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED CIVIL ENGINEER
Gurinderpal Bhullar
C48815
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA



- NOTES:**
1. Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
 2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 3. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 4. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
 5. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT — MILES", use a C20(CA) sign for the first advance warning sign.
 6. Place a C30(CA) sign every 2000' throughout length of lane closure.

7. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
8. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
9. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
10. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
11. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.

12. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
13. A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
14. When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	48" x 18"
C	48" x 30"

- LEGEND**
- TRAFFIC CONE
 - TRAFFIC CONE (OPTIONAL TAPER)
 - † TEMPORARY TRAFFIC CONTROL SIGN
 - ⬢ FLASHING ARROW SIGN (FAS)
 - ⬢ FAS SUPPORT OR TRAILER
 - ⚡ PORTABLE FLASHING BEACON

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURES ON
FREEWAYS AND EXPRESSWAYS**

NO SCALE

RSP T10A DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10A
DATED MAY 20, 2011 - PAGE 238 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10A

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 36" x 36"
- D 48" x 36"

LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ‡ BARRICADES
- ⚡ PORTABLE FLASHING BEACON



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala/CC	680	R20.1/21.9 R0.0/14.0	617D	617

REGISTERED CIVIL ENGINEER

April 19, 2013

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER

Gurinderpal Bhullar

No. C48815

Exp. 9-30-14

CIVIL

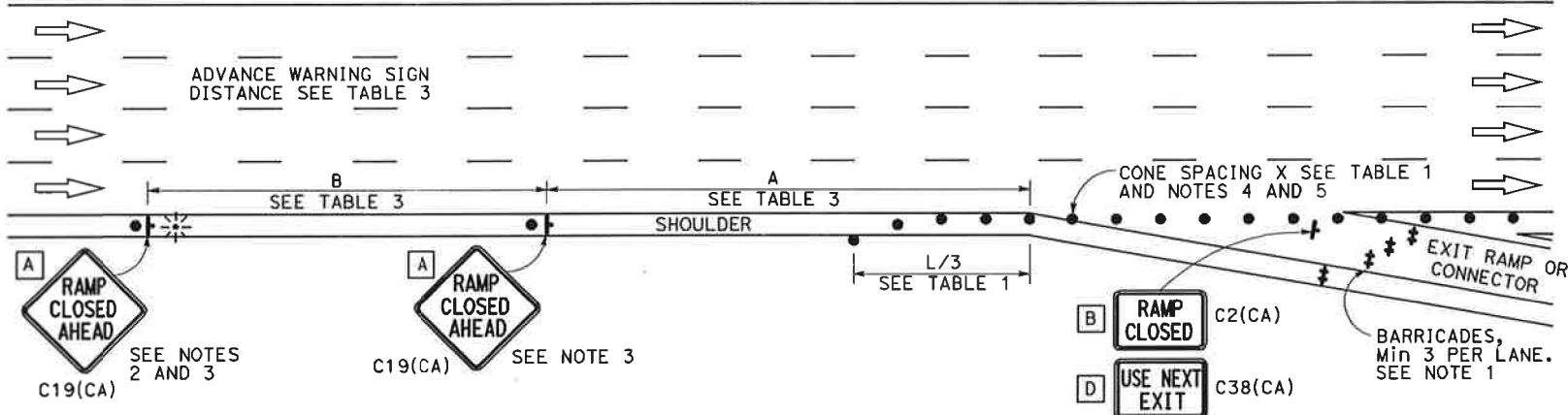
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED _____

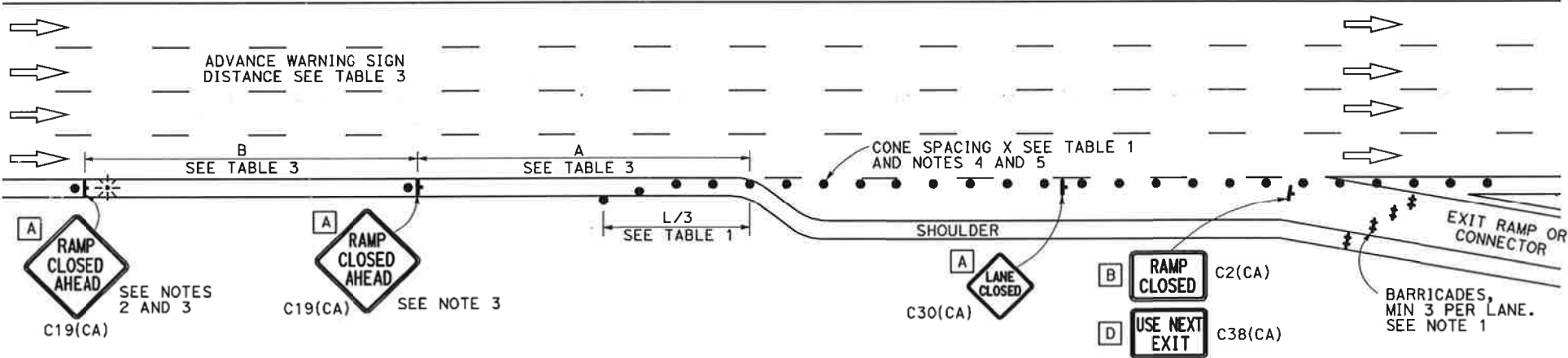
NOTES:

1. Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
2. In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
3. Each advance C19(CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
4. All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" signs shall be covered during ramp closures.
8. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.

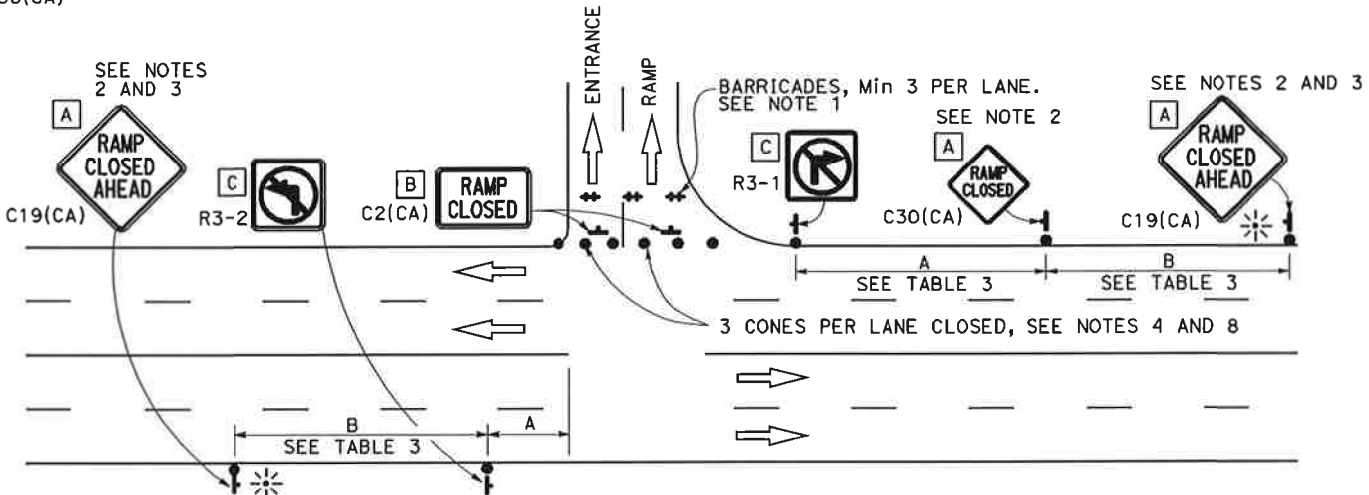
EXIT RAMP OR CONNECTOR



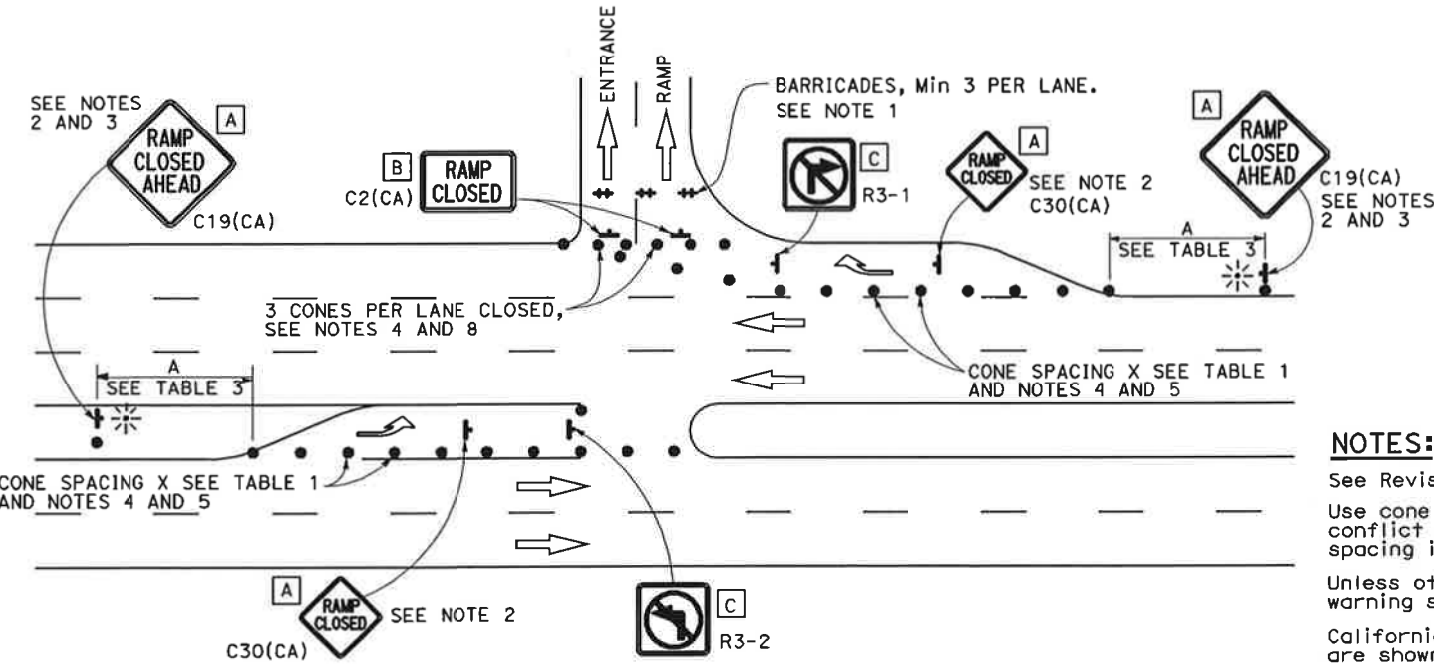
EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITHOUT TURNING POCKETS



ENTRANCE RAMP WITH TURNING POCKETS



NOTES:

- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
- California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR RAMP CLOSURE**

NO SCALE

RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14
DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T14